

Remote User Guide



dish®

Safety Instructions

You must keep safety in mind while using this device. Keep these and any other instructions for future reference.

Observe Warnings: Carefully follow all warnings on the device and in the operating instructions.

Heat: Do NOT place the device near heat sources such as radiators, stoves, heat registers, or other appliances that produce heat.

Care and Use

Cleaning: Do NOT use liquid, abrasive, solvent, or aerosol cleaners. Use a damp cloth for cleaning.

When Not in Use: Remove the batteries if this device is to be left unattended or unused for a long period of time.



Refer servicing to qualified personnel when a solid object or liquid has fallen onto or into the device.



Do NOT attempt to service this device. Refer all servicing to qualified personnel. Opening covers other than the battery cover will void the warranty.

Publishing Information

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Configuring the 20.1 Remote

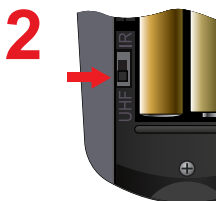
The 20.1 remote does not require any configuration. Go to *Insert the Batteries* (page 2).

Configuring the 21.1 Remote

Complete the following steps to configure your remote.



Pull the remote battery cover off.



Decide whether to use IR or UHF signals for the remote. Use UHF signals if you do not have a clear line of sight between the remote and the receiver.

Set UHF/IR SWITCH to either UHF or IR. If your remote has a blank, black key, continue to *Insert the Batteries* on page 2.



If your remote shows a "1" or a "2" on the bottom, you can pull out this key and flip it to the other number (2 to 1 and 1 to 2). To separate the key from the remote, insert your thumbnail or a coin in the crease. Remove the key by grasping at the bottom.



Insert the key you wish to use to designate the remote and slide into place. Usually a 1 = TV1 and a 2 = TV2. For remotes showing the blank, black key, leave this key as it is.

Insert the Batteries

1



Pull the remote battery cover off.

2



Insert 4 AAA batteries, making sure to match the plus (+) ends with the plus markings on the battery case.

3



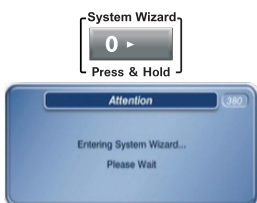
Replace the remote battery cover.

Using System Wizard

Note: Not all receivers support System Wizard. If System Wizard does not appear, continue with page 4 or page 5 to make your remote work with your receiver.

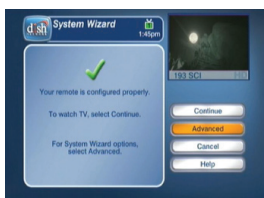
Use System Wizard initially to set up the remote to work with the receiver. System Wizard can also store/restore your remote settings. **Note:** If your batteries are low, replace them before beginning.

1



Press and hold 0 until System Wizard message appears. Make sure the remote and receiver are in line of sight.

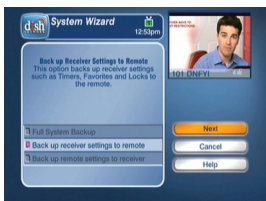
2



If first time in System Wizard, follow instructions provided.

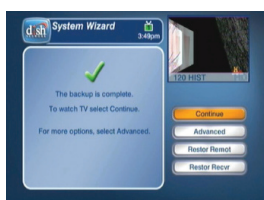
When green checkmark displays, select **Advanced** to store/restore remote settings.

3



Follow the on-screen options.

4



Select **Continue** to return to Live TV.

Making 20.1 and 21.1 IR Remote Work with Receiver

For 20.1 and 21.1 IR

Use the following instructions to configure your remote while using IR signals.



Note: Use these instructions if your receiver does not support System Wizard.

1



Turn your receiver and TV on, and press SYSTEM INFO on the front of the receiver.

2



Confirm that you see the System Info screen.

3



Press RECORD on your remote. The receiver then matches the remote's address.

4



Confirm that your remote operates your receiver by pressing remote buttons.

If this is not working, go back to step 3.

Making 21.1 UHF Remote Work with Receiver

For 21.1 UHF

Use the following instructions if you have configured your remote to use UHF signals.



Note: Use these instructions if your receiver does not support System Wizard.

1



Verify the UHF antenna is installed on the back of the receiver.

2



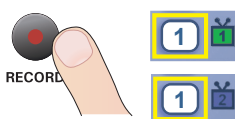
Turn your receiver and TV on, and press SYSTEM INFO on the front of the receiver.

3



Confirm that you see the System Info screen.

4



Press RECORD on your remote. The remote address will probably change on the screen.

5



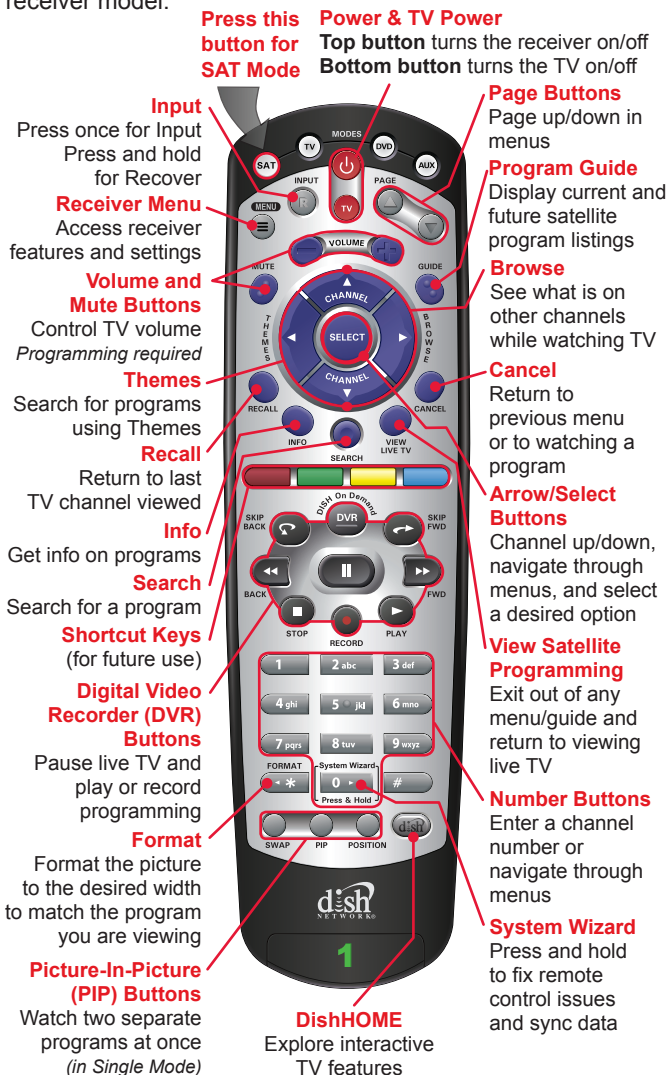
Confirm that your remote operates your receiver by pressing remote buttons. If this is not working, go back to step 4.

SAT Mode

SAT

To use the features described in this section, make sure you are in SAT mode by pressing the SAT Mode button.

Note: Some features may not be available depending on your receiver model.



TV Mode

TV

Press this button for TV Mode

Input

Switch between TV inputs

TV Menu

Access menu features available on some TVs

Mute

Turn TV volume on or off

Recall

Return to last TV channel viewed

Power & TV Power

Turn the TV on/off

Volume

Control TV volume

Up/Down Arrow Buttons

Channel up/down on TV

Number Buttons

Enter a desired channel number on TV

Picture-In-Picture (PIP) Buttons

Display PIP features on some TVs with PIP capabilities



DVD Mode

DVD

Press this button for DVD Mode

Power & TV Power

Top button turns the DVD player/VCR power on and off
Bottom button turns the TV on and off

Input

Switch VCR between its TV & VCR mode

Up/Down Arrow Buttons
Channel up/down on VCR

Pause
Pause a videotape or DVD

FWD
Forward a videotape or DVD

Play
Play a videotape or DVD

Number Buttons
Enter a channel number for DVD

Back

Rewind a videotape or reverse a DVD

Stop

Stop playing a DVD, stop playing or recording a videotape

Record

Record on a videotape



DVR Functions

DVR



Press twice to go to the list of recorded programs.



PLAY

Plays a live or recorded program.



Pauses a live or recorded program.



STOP

Stops recording a program.



RECORD

Records a program.



BACK

Press BACK once to reverse the program four times as fast as normal play. Press BACK twice to reverse at 15 times normal speed, three times to reverse at 60 times normal speed, and four times to reverse at 300 times normal speed. The on-screen bar shows how far you've gone. For a live program, you can only reverse back to the last channel change or back one hour, whichever occurs first.

SKIP
BACK



Press SKIP BACK to skip back about 10 seconds in a program.



FWD

Press FWD (Forward) once to fast-forward through the program four times normal speed. Press FWD twice to forward at 15 times normal speed, three times to forward at 60 times normal speed, and four times to forward at 300 times normal speed. The on-screen bar shows how far you've gone. Of course, you cannot forward into the part of a live program that has not been broadcast yet.

DVR Functions, continued



SKIP
FWD

Press SKIP FWD to skip ahead about 30 seconds in the program.



Press PAUSE and then press BACK to reverse the program in slow motion at 1/4 the speed of normal play. Press BACK again to reverse at normal speed.



BACK



FWD

Press PAUSE and then press FWD to forward the program in slow motion at 1/15 the speed of normal play. Press FWD twice to forward at 1/4 as fast as normal play. Press FWD three times to play the program. Of course, you cannot forward a live program that has not been broadcast yet.



SKIP
BACK



Press PAUSE and then press SKIP BACK to reverse the recording frame-by-frame.



SKIP
FWD

Press PAUSE and then press SKIP FWD to advance the recording frame-by-frame.

Programming Remote to Control Another Device

Entering a Code

1



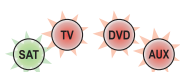
Turn the device and receiver on.

2



Find the brand name of the device listed in the code tables that start on page 29.

3



Press and hold the Mode button until all the other Mode buttons light up. Once Mode buttons are lit, release the button.



For AUX Mode only. Press 0 for second TV.
1 for a second DVD/VCR/Blu-ray.
2 for a tuner, amplifier, or audio receiver.

4



Enter one of the three-digit device codes from the table using buttons on the number pad, such as device code 560.

If you want to program Limited Mode, see *Placing Remote in Limited Mode* on page 15.

Programming Remote to Control Another Device

Entering a Code, continued

5



Press POUND (#). The Mode button flashes three times.

6



Turn device on and try other buttons to make sure the device responds the way you expect. If you want to try another code, begin from Step 1 again.

7



Turn off the device.

8



If you are unable to find a code that works or if all the keys are not supported, go to *Learning From Another Device's Remote* on page 24 to program the key to the DISH Network remote.

If you are unable to find a code that works, try the instructions for *Scanning the Remote Database* on page 13.

Programming Remote to Control Another Device

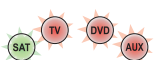
Scanning the Remote Database

1



Turn the device and receiver on.

2



Press and hold the correct Mode button for the device until all Mode buttons light up.

3



Skip this step if programming TV or DVD Mode buttons.

For AUX Mode only. Press 0 for second TV.

1 for second DVD/VCR/Blu-ray player.
2 for tuner, amplifier, or audio receiver.
Press the STAR (*) button.

4



Press POWER.

5



Press and release UP ARROW slowly. When the device turns off, continue to Step 6. If the device remains on, continue pressing UP ARROW. When all codes have been tried, the Mode button flashes eight times. Try *Learning From Another Device's Remote* on page 24.

6



Press POUND (#). The Mode button flashes three times.

7

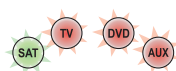


Turn the device on and try other buttons to make sure the device responds the way you expect. If not, try another code by returning to Step 1.

Displaying Device Code

To identify the device code that your remote control is using, complete the following steps:

1



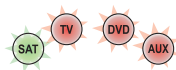
Press and hold the Mode button until all the Mode buttons light up and then release it. When you release the Mode button, the selected Mode button flashes.

2



Press and release POUND (#) twice.

3

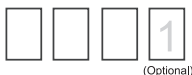


The Mode button flashes a number of times corresponding to the value of the stored device code. For example, if the stored device code is 593, the Mode button flashes five times, pauses, flashes nine times, pauses, and flashes three times. A quick flash is for zero.



For AUX mode: The first group of flashes tells you what the AUX mode controls, then the following flashes tell you each digit of the device's code.

4



Record the stored device code in the Reference Table on the inside back cover.

Placing Remote in Limited Mode

Limited Mode locks out all the device mode operations except for the device's power, Mute, and Volume. This prevents you from accidentally tuning away from satellite programming.

Note: Limited Mode cannot be used with audio amplifiers.

1



Press and hold the TV, DVD, or AUX Mode button until all Mode buttons light up.

2



Press PAGE UP to activate.



Press PAGE DOWN to take the remote out of Limited Mode.

3



Press POUND (#).

SAT Auto-Tune

SAT Auto-Tune programs into the remote control the correct TV channel used for viewing your paid programming. If you are experiencing fuzzy, snowy, blue, or black screens, it might be due to the TV being set to the wrong channel. Using the SAT Auto-Tune feature helps prevent these screen issues from occurring on TVs connected to the receiver's modulated output (usually TV2). Use SAT Auto-Tune to program the correct TV channel for satellite viewing into the remote control. When SAT is pressed and released, the remote sends that channel to the TV, ensuring that the TV is on the correct channel for viewing your paid programming. This feature is enabled by default; however, if you want to use this feature, the channel must be programmed by following the steps in *Setting SAT Auto-Tune Channel*.

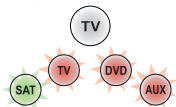
Setting SAT Auto-Tune Channel

1



Make sure the remote control operates your TV.

2



Press and hold TV for three seconds until all four Mode buttons are lit.

3



Press STAR (*).

4



Enter the channel used for viewing (two or three digits in range of 002 to 125), for example channel "10" or "010."

5



Press POUND (#). The Mode button flashes three times to indicate programming was successful.

6

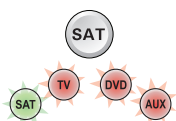


Press SAT. The channel changes.

Enabling and Disabling SAT Auto-Tune

Note: SAT Auto-Tune is enabled by default; however, the channel must be set (see *Setting SAT Auto-Tune Channel* on page 16).

1



Press and hold SAT for three seconds until all four Mode buttons are lit.

2



Press STAR (*).

3



Press VOLUME UP to enable SAT Auto-Tune or VOLUME DOWN to disable.

4



Press POUND (#).

Removing SAT Auto-Tune Channel

1



Press and hold the TV mode button until it stays lit.

2



Press STAR (*).

3



Enter 00 or 000.

4



Press POUND (#).

Setting Auto-Tune for DVD/VCR

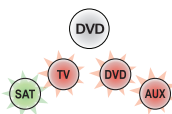
You can set Auto-Tune for your DVD and/or VCR. Auto-Tune allows you to return to the channel for your DVD/VCR output when you accidentally change the channel or video input.

1



Make sure the remote control operates your DVD/VCR.

2



Press and hold DVD for three seconds until all four Mode buttons are lit.

3



Press STAR (*).

4



Enter the channel used for viewing (two or three digits in range of 002 to 125), for example channel "03" or "004".

5



Press POUND (#). The Mode button flashes three times to indicate programming was successful.

Removing Auto-Tune for DVD/VCR

If you want to remove Auto-Tune for your DVD and/or VCR, follow the steps below.

1



Press and hold DVD until it stays lit.

2



Press STAR (*).

3



Enter 00 or 000.

4



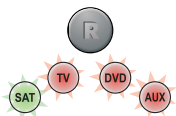
Press POUND (#).

Recovering Your Picture

Use the RECOVER button to get back to watching satellite programming if you accidentally change channels or inputs on your TV, DVD, and/or VCR. To use this feature, you must set up Auto-Tune for your TV (see page 16) and for your DVD/VCR (see page 18).

Note: RECOVER only works if the remote control has been set up to control the TV and/or DVD/VCR, if connected. If the RECOVER button is used, the TV channel programmed for SAT Auto-Tune is also the channel that is sent to the TV. RECOVER first tries to tune your TV to channel 3, then channel 4, and then other video inputs with each press of the RECOVER button. You may need to press the RECOVER button up to 30 times to recover your satellite TV video. If SAT Auto-Tune is not set-up, RECOVER only tries channels 3 and 4.

1



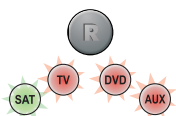
Press and hold RECOVER until all Mode buttons light up.

2



If you see the System Info screen, proceed to step 4. Otherwise, continue to step 3.

3



Press RECOVER again and wait until the Mode lights stop flashing. If you see the System Info screen, go to step 4. If not, repeat this step until you see the screen.

4

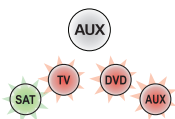


Press SELECT to resume watching TV.

Control Amplifier Volume

When the remote control is set up to operate your TV, the MUTE and VOLUME buttons adjust your TV volume when in SAT mode. To use the remote to adjust the volume of a remote-controllable audio receiver or amplifier instead of adjusting the TV's volume setting, use the steps on this page.

1



Press and hold AUX until all Mode buttons are lit, then release it. The AUX mode button blinks.

2



Press POUND (#).

3



Press the plus (+) side of the VOLUME button.

4



Press the 0 number button.

5



Press POUND (#). The AUX mode button flashes three times.

Make sure the remote controls the amplifier's volume in other modes:

6



Press SAT.

7



Press the plus (+) and minus (-) sides of the VOLUME button.

8

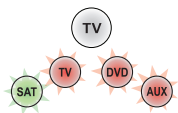


Your tuner/amplifier's volume changes, and the AUX mode button lights.

Control TV Volume

Use this procedure to change from having the remote adjust the volume of an audio receiver or amplifier to having the remote adjust the TV's volume. When the remote control is set up to operate your TV, the MUTE and VOLUME buttons adjust your TV volume when in SAT mode.

1



Press and hold TV until all Mode buttons are lit, then release it. The TV mode button blinks.

2



Press POUND (#).

3



Press the plus (+) side of the VOLUME button.

4



Press the 0 number button.

5



Press POUND (#). The TV mode button flashes three times.

Make sure the remote controls the TV's volume in other modes:

6



Press SAT.

7



Press the plus (+) and minus (-) sides of the VOLUME button.

8



Your TV's volume changes, and the TV mode button lights.

Programming Remote to Control Second Receiver in AUX Mode

If you have another DISH Network receiver installed, you can use this remote control in AUX mode to operate your new receiver. AUX mode uses only IR signals, so the line of sight to the second receiver must be unobstructed. You can program the remote control to operate any other DISH Network receiver except where UHF is used, such as TV2 on DISH Network receivers.

1



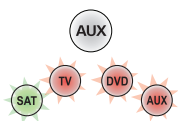
Turn on the second receiver and open **System Info** screen.

2



Write down the TV2 address that is shown.

3



Press and hold AUX until all Mode buttons light up, then release the button. AUX flashes.

4



Use the Number Pad on the remote control to enter a 3, followed by the address in step 2.

5



Press POUND (#). AUX flashes three times.

6



Press RECORD to verify that the address in the remote control now matches the address for the receiver.

Learning From Another Device's Remote

Use this procedure if you are unable to find a code that allows your DISH Network remote to control your device or if some of the commands are not functioning as you expect after programming your DISH Network remote to control your device (in TV, DVD, or AUX modes). Use this procedure to have your DISH Network remote learn the commands of the other device's remote control.

The remote control can learn commands in one of two ways:

- You can follow the instructions for using device codes to program a specific mode, and then learn commands that add new or overwrite existing functions of the remote control's buttons in this mode. For this type of learning, any button without a learned command keeps the previous command (if any) for that device code. To program a specific mode, use the instructions for *Entering a Code* on page 11 or *Scanning the Remote Database* on page 13.

or

- Each button on this remote learns a command from the device's original remote control. For this type of learning, any button without a learned command keeps the previous command (if any) for that device code.

Learning can occur only in TV, DVD, or AUX modes. The Mode buttons (SAT , TV , DVD , and AUX ) cannot learn a command. For each Mode button, the POWER button  can be learned to turn the devices associated with that Mode on and off.

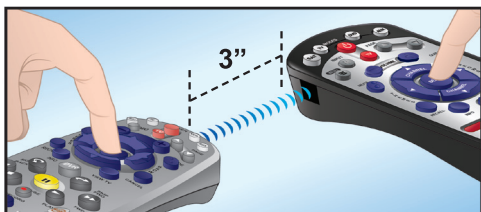
Note: The TV Power button  turns the TV on and off in all Modes. It cannot be learned.

Note: The remote times out if a button isn't pressed within 20 seconds. If the remote times out, then the learning process needs to start over again.

Learning from Another Device's Remote, continued

To have the DISH Network remote control learn specific commands for another device, complete the following steps.

- 1** Ensure the DISH Network remote control is working with the receiver (see page 4 or 5).
- 2** Place both the DISH Network remote and the original device's remote control on a flat, stable surface. Point the front of the original device's remote to face the small square (IR window) on the front, left-hand side of the DISH Network remote, as shown below. The remotes should be no more than 3" apart.



- 3** On the DISH Network remote, **press and hold** the Mode button you want to use for the device until all the Mode buttons light up (approximately three seconds), and then release it. The selected Mode button blinks continuously.
- 4** To start learning commands for this mode, select one of the following choices:
 - If you've found a code for the device and programmed it into the remote, **press and release** RECALL (the Mode light goes off when RECALL is pressed and comes on when released), then **hold** the RECORD button until the Mode button is lit again (about three seconds). The Mode button remains lit while learning.
 - If the device code has not been programmed for that device or if you are unable to find a code, **press and hold** the RECORD button until the Mode button is lit (about three seconds). The button remains lit while learning.

Learning from Another Device's Remote, continued

5 On the DISH Network remote, **press and release** the button you want the DISH Network remote to learn from the original device's remote. The Mode light goes off and comes back on.

6 On the original device's remote control, **press and hold** the button you want learned until the Mode light goes out and comes back on. You may need to press and hold the button on the original remote several times before the DISH Network remote learns the command.

- If the DISH Network remote learns the command, the Mode light blinks off and then back on.
- If the Mode light blinks three times or remains lit, the DISH Network remote did not learn the command.



7 After a button has learned a command successfully, repeat step 5 and step 6 until all commands you want have been learned.

8 **Press and release** one of the Mode buttons on the DISH Network remote to end the learning sequence. This saves all the commands for that mode and exits learning to return to normal remote control operation.

To cancel learning, do not press any buttons on either remote control for at least 20 seconds. The DISH Network remote control times out and returns to normal operation.

Note: If the remote control batteries are too low for learning, all the Mode buttons blink quickly eight times. Learning ends without saving learned commands, and the remote returns to normal operation. Change the batteries and begin learning again.

Note: No learned commands are saved if the DISH Network remote control times out before completion.

Discrete Codes

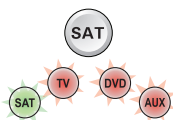
Discrete On and Off IR-only remote-control commands are used by installers when programming macro commands into universal remotes. Using an On-only or Off-only command is more effective than a toggle On/Off command when trying to ensure the receiver is reliably in one state or the other.

1



Program the DISH Network remote to the desired remote address (see *Changing the Remote and Receiver Address*, page 28).

2



Hold SAT until all Mode buttons light, then release the button.

3



Press POWER (not TV POWER).

4



Press VOLUME UP for discrete power on. Press VOLUME DOWN for discrete power off.

5



Press any other button when done to end this procedure.

Changing the Remote and Receiver Address

If you notice that your receiver is changing channels or opening menus, but you're not using the remote control, changing the address should fix the problem.

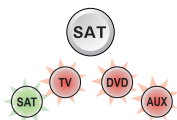
1



Press SYSTEM INFO on the receiver's front panel.

Write down the TV2 remote address shown on the System Info screen.

2



Press and hold SAT on your remote control for about three seconds, until all the Mode buttons light up, and then release SAT.

3



Add one to the address that you wrote down in step 1, and use the NUMBER PAD to enter that number (between 1 and 28).

4



Press POUND (#).

5



Press RECORD.

6



Press several buttons on the remote to make sure it is working as expected.

TV Codes

This table contains the manufacturer codes for programming the remote control to operate your TV. If your TV brand is not listed or if the codes do not work, the remote may not control your TV. In some cases, codes may operate some, but not all buttons, shown in this guide.

Note: If programming a second TV in AUX mode, press 0 before entering the TV code.

Abex 658	Baycraft 536
ABS 721	Baysonic 682
Accurian 623	Belcor 505 627 773
Acer 511	Bell & Howell 590 611 675 683
Admiral 514 521 532 533 572	Benq 511 535
665 675 726 739 740 834 835	Bradford 541 657 682
Advent 502 653 842 912	Brilliant 558
Aiko 524 727 778	Brionvega 514 665
Aiwa 667	Brockwood 505 627
Akai 506 520 592 601 612 622	Broksonic 533 622 648 682
627 652 680 684 738 750 754	726 748 750 752 754 834 865
794 795 807 808 858 865 866	866 899 908
906 907 908	byd:sign 792
Alaron 532	C & M 804
Albatron 692 804	Candle 506 520 523 536 627
Alienware 721	654
A-Mark 804	Capehart 627
America Action 541 657 682	Carnivale 506 520 627
Ampro 691	Carver 621 656 674 761 792
Amtron 657	818 897
Anam 541 657 682	CCE 528 816
Anam National 541 657	Celebrity 500 640 652 677 758
AOC 505 506 519 520 582 620	781 783 795 797 798 837 844
627 653 654 913	Celera 743 744 745 815
Apex Digital 542 552 574 595	Century 514 665
743 744 745 757 759 771 815	Changhong 743 744 745 815
Archer 804	Cineral 697
Astar 594	Circuit City 627
ASA 514 665	Citizen 506 516 520 523 524
Audiovox 524 528 531 541	536 590 622 627 654 655 657
565 623 624 657 678 682 697	658 664 680 702 727 750 754
719 727 778 810 816 832	778 865 866 908
Autovox 514 665	Clarion 541 657 682
Aventura 527 569 694 733	Coby 607 626 633
841 846	Colortyme 627 654
Axion 636	Colt 660
Bang & Olufsen 514 665	
Barco 770 824 825 826 828	

Table continued on next page

TV Codes, continued

Commercial Solutions 503 522
645 650 749 776 779 805 830 831
859 863 864

Concerto 523 627 654

Contec 541 655 657 658 682

Craig 536 541 657 682 694

Crosley 500 621 640 656 674
677 758 761 781 783 792 795
797 798 818 837 844 897

Crown 536 541 655 656 657
658 682 702 761

CTX 804

Curtis 537 539 573 903 915

Curtis Mathes 503 506 516
520 521 528 530 531 572 590
611 621 627 641 645 650 654
655 656 658 674 675 680 683
697 702 719 738 739 740 749
755 761 776 792 794 818 830
832 863 864 897

CXC 541 657 682

CyberPower 721

Cytron 537 539 903 904

Daewoo 505 524 528 530 531
590 611 627 630 653 654 655
658 664 684 697 702 719 727
778 816 832 853

Daytron 505 627 654 658

Dell 518 676 772 773 774

Delta 909

Denon 786

Diamond Vision 546 643 659

Dimensia 503 645 830

DISH Network 742

Disney 529 559

Dixi 566 761 897

Dumont 501 505 627 711 775
813

Durabrand 527 529 533 541
559 564 569 587 627 632 657
682 694 718 726 733 834 841
843 846

Dwin 572 739

Dynex 538 585 698 701 706

EchoStar 742 763

Electroband 500 640 652 677
758 781 783 795 797 798 837
844

Electrograph 507 581 609 710
746 753 763 801

Electrohome 533 627 652 654
726 795 834

Element 567 568 591 669 723
724 902

Emerson 505 527 528 529 530
531 532 533 536 541 559 564
569 587 590 611 618 627 632
643 646 654 655 657 658 664
668 672 679 682 683 694 697
702 718 719 726 733 748 752
756 764 767 777 816 829 832
834 838 839 841 846 899

Emprex 597

Envision 506 519 520 620
627 654

Epson 708

ESA 527 569 587 601 618 632
646 679 694 733 767 777 829
838 839 841 846

Fisher 590 595 611 683

Fujitsu 532 536 602 603 694
Funai 500 527 532 541 569
587 618 640 657 677 679 682
694 733 756 758 777 781 783
795 797 798 829 837 838 839
841 844 846

Futuretech 541 657 682 694

Gateway 507 511 535 581 609
710 721 746 753 763 801

General Electric 503 508 522
528 531 544 564 627 645 650
654 661 690 697 718 719 742
749 776 779 805 830 831 832
859 863 864

GFM 527 529 559 569 618
679 694 733 777 829 838 839
841 846

Table continued on next page

TV Codes, continued

Gibralter 501 505 506 520 627 711 775 813	751 766 773 777 809 829 834 838 839 841 846 857 903
Go Video 696	Inteq 501 711 775 813
Goldi 566	JBL 566 621 656 674 761 792 818 897
Goldstar 505 506 520 523 564 566 627 653 654 655 658 702 718 720 761 897	JC Penney see Penney
GPX 532	JCB 500 640 652 677 758 781 783 795 797 798 837 844
Gradiente 540	Jensen 502 537 539 627 653 654 842 903 912
Granada 627	JVC 508 517 533 557 570 642 649 655 658 662 688 713 714 715 726 735 736 737 812 817 834
Grand 627	Kawasho 627 652 654 795
Grundig 603	KDS 591 669 902
Grunpy 532 541 657 682	KEC 541 657 682
Haier 515 571 693 843	Kenwood 505 506 520 627 654 716
Hallmark 564 627 654 718	KLH 595 743 744 745 815
Harley Davidson 532 756	Kloss 627 657
Harman/Kardon 621 627 656 674 761 792 818 897	Konka 510
Harvard 541 657 682	KTV 506 520 541 627 655 657 658 682 702
Havermy 521 572 739 740	LG 501 503 522 545 553 564 615 627 650 653 654 693 711 718 720 730 766 773 775 779 804 805 809 813 830 831 859
Helios 901 905	Linksys 721
Hello Kitty 528 531 697 719 832	Lloyd's 627 756
Hewlett Packard 599 712 721 911	Lloytron 658
Hisense 759	Loewe 566 656 761 897
Hitachi 517 523 547 549 554 555 606 627 637 638 654 655 658 675 688 709 756 786 788 789 790 791	Logik 675
Howard Computers 721	Luce 699
HP 599 712 721 911	Luxman 523 627 654
Hush 721	LXI 503 526 564 566 590 595 611 621 627 631 635 645 650 654 656 674 683 718 744 749 761 768 771 776 785 792 818 830 863 864 897
Hyundai 695	M. Wards see Wards
iBUYPower 721	MAG 591 669 902
Ilo 529 559 588 596 625 668 764	Magnasonic 664 756
IMA 657	
Infinity 566 621 656 674 761 792 818 897	
InFocus 616	
Initial 596 625	
Insignia 527 533 537 538 539 543 550 553 569 585 618 671 679 694 698 701 726 728 733	

Table continued on next page

TV Codes, continued

Magnavox 506 507 508 517
520 527 532 536 550 560 563
566 569 581 609 618 621 625
627 646 654 656 674 679 688
694 710 733 746 747 753 756
761 762 763 767 777 782 792
801 818 827 828 829 838 839
841 846 876 887 888 891 892
893 894 897

Magnin 661

Majestic 675

Marantz 506 520 550 560 563
566 604 608 621 627 654 656
674 747 761 792 818 836 897

Matsushita 512 577 619 634
685 689 700 729 734 765 780
784 819 820 821 822 823

Maxent 507 581 609 710 746
753 763 801

Media Center PC 721

Megapower 804

Megatron 564 627 654 718

Memorex 504 529 532 533
559 564 590 611 613 627 648
653 654 675 680 683 684 718
725 726 752 787 799 834 869
876 899

MGA 504 505 506 520 564
613 627 653 654 661 718 725
787 799

Microsoft 721

Midland 501 508 645 650 655
658 702 711 730 749 775 776
813 863 864

Mind 721

Mintek 596 625

Mitsubishi 504 505 517 521
564 572 613 614 627 653 654
688 718 725 739 740 787 799

Mitsui 769

Monivision 692 804

Montgomery Wards see
Wards

Motorola 521 572 739 740 835

MTC 505 506 516 520 523 627
653 654 680

Multitech 541 657 682

Multivision 810

NAD 526 564 595 627 631 635
637 654 718 744 768 771 785

NEC 505 506 517 520 523 604
608 610 627 653 654 687 688
731 732 904

NetTV 507 581 586 609 710
746 753 763 801

Nikkai 613

Nikko 506 520 524 564 627
654 718 727 778

Niveus Media 721

Norcent 519 579 759

Northgate 721

Norwood Micro 588

Noshi 681

Novabeam 627

NTC 524 727 778

Nyon 627

Olevia 523 564 578 580 654
910 914

Onwa 541 657 682

Optimus 512 577 590 611 619
634 637 685 689 700 729 734
756 765 780 784 819 820 821
822 823 869 876

Optonica 521 572 739 740 835

Orion 532 533 538 694 726
748 752 834 899

Panasonic 508 509 512 576
577 619 634 644 647 656 685
689 700 729 734 761 765 780
784 811 819 820 821 822 823
860 861 862 867 868 869 870
871 872 873 874 875 876 877
878 879 880 881 882 883 884
885 886 889 890 895 896 897
900

Panavision 734 811

Table continued on next page

TV Codes, continued

Penney 503 505 506 508 516
520 525 526 543 564 595 627
631 635 645 650 653 654 655
658 661 680 681 690 702 718
720 728 730 744 749 768 776
771 785 830 857 863 864

Petters 534

Philco 505 506 514 520 527
529 532 536 559 569 618 621
627 653 654 655 656 658 665
668 674 679 694 733 761 764
777 792 818 829 838 839 841
846 897

Philips 514 525 527 548 550
560 563 566 621 625 627 655
656 658 665 674 747 761 770
782 792 818 824 825 826 827
828 839 876 887 888 891 892
893 894 897

Pilot 505 506 520 627 655 658
702

Pioneer 547 561 576 604 608
627 637 654

Plasmsync 610

Polaroid 534 537 539 550 588
591 627 669 670 671 678 743
744 745 751 766 773 814 815
901 902 903 905

Portland 505 524 528 530 531
627 653 654 655 658 697 702
719 727 778 832

Price Club 680

Prima 502 653 673 674 842
912

Princeton 562 804

Prism 508

Proscan 503 506 520 522 645
650 705 742 749 776 779 805
830 831 859 863 864

Proton 536 564 627 654 655
658 718

Protron 589

Proview 591 669 902

Pulsar 501 505 627 711 775
813

Quasar 508 512 577 619 634
685 689 700 729 734 765 780
784 819 820 821 822 823 860
861 862 867 868 869 870 871
872 873 874 875 876 877 878
879 880 881 882 883 884 885
886 889 890 895 896

Radio Shack 503 505 506 520
541 564 590 611 627 645 650
655 657 658 662 682 683 702
718 749 756 776 830 863 864

RCA 503 505 508 521 522 530
544 547 627 630 636 637 639
641 645 650 651 653 654 661
671 681 686 690 740 742 749
751 776 779 805 830 831 859
863 864 902 916

Realistic 503 505 506 520 541
564 590 607 611 627 645 654
655 657 658 682 683 702 718
730 830

Ricavision 721

Runco 501 506 520 604 608
627 711 775 813

Sampo 506 507 520 581 609
627 654 655 658 702 710 746
753 763 801

Samsung 505 506 516 520
523 564 566 601 627 653 654
655 658 680 684 702 707 717
718 738 755 761 794 833 858
897

Samsux 655 658 702

Sansei 697

Sansui 527 533 569 622 694
726 733 748 750 752 754 756
834 841 846 865 866 899 908

Sanyo 517 590 611 621 627
656 661 674 683 688 761 792
818 840 897

SBR 566 761 897

Sceptre 677

Schneider 566 761 897

Scimitsu 505 773

Table continued on next page

TV Codes, continued

Scotch 564 627 654 718

Scott 505 532 541 564 627
654 655 657 658 682 718

Sears 503 523 526 527 532
558 564 569 590 595 611 621
627 631 635 645 650 654 656
658 674 683 694 718 733 744
749 756 761 768 771 776 785
792 818 830 841 846 863 864
897

Seimitsu 627

Semivox 682

Semp 595 771

Sharp 521 546 556 572 605
627 628 629 654 655 658 663
702 739 740 803 835 836 898

Sharper Image 703

Sheng Chia 521 572 739 740

Shogun 505 627

Signature 621 656 674 675
761 792 818 897

Simpson 536

Solavox 613

Sole 699

Sony 500 513 640 652 677
721 756 758 781 783 795 796
797 798 806 837 844 845

Soundesign 532 536 541 564
627 654 657 682 718

Spectricon 520 627

Spectroniq 591 669 902

Squareview 527 569 694 733
841 846

SSS 505 541 627 657 682

Stack 9 721

Starlite 541 657 682

Studio Experience 692

Superscan 521 572 583 646
739 740 741 767 777

Supra 523 627

Supreme 500 640 652 677
758 781 783 795 797 798 807
837 844

SVA 515 618 679 759 777 829
838 839 901 905

Sylvania 506 520 527 529 536

559 566 567 568 569 618 621
627 646 654 656 668 672 674
679 694 723 724 733 756 761
764 767 777 792 818 829 838
839 841 846 888 897

Symphonic 527 541 569 587
632 646 657 679 682 694 733
756 767 841 846

Syntax 523 558 564 578 580
654 910 914

Systemax 721

Tagar Systems 721

Tandy 521 572 739 740 835

Tatung 511 535 588

Teac 586

Technics 508 512 577 619 634
685 689 700 729 734 765 780
784 819 820 821 822 823

TechnolACE 532

Techview 590 683

Techwood 508 523 627 654

Teco 704

Teknika 504 505 512 516 523
524 532 536 541 613 621 627
644 653 654 655 656 657 658
674 675 680 682 685 702 725
727 761 778 787 792 799 818
897

Telecaption 688

Telefunken 738 794

Thomas 627 756

TMK 523 564 627 654 718

TNCi 501 711 775 813

Toshiba 516 517 526 590 595
610 611 615 617 622 631 635
644 666 680 683 688 721 744
750 754 755 768 771 785 793
800 802 847 848 849 850 851
852 854 855 865 866 908 909

Totevision 655 658 702

Touch 721

Toyomenko 627

Table continued on next page

TV Codes, continued

Trutech 529 559 584

TVS 533 726 834

Ultra 589

US Logic 588

V Inc. 562 575

Vector Research 506 520 627

VEOS 558

Victor 557 735 736 737

Vidikron 604 608 621 656 674

761 792 818 897

Vidtech 505 517 564 627 653

654 688 718

Viewsonic 507 551 562 575

579 581 582 583 600 606 609

620 710 721 741 746 753 760

763 789 796 801

Viore 907 915

Vizio 511 535 551 562 575 583

593 598 741 773

Voodoo 721

Wards 500 501 503 505 506

508 516 520 526 532 536 541

564 590 595 611 621 627 631

635 640 641 645 653 654 656

657 674 675 677 681 682 711

718 749 758 761 768 775 776

781 783 785 792 795 797 798

813 818 830 837 844 863 864

897

Waycon 526 595 631 635 768

785

Westinghouse 528 531 551

562 574 575 652 697 719 795

797 798 809 832 856

White Westinghouse 528 530

533 726 816 832 834

Yamaha 505 506 520 606 627

653 654 789

York 627

Zenith 500 501 506 520 524

530 533 553 555 564 615 627

638 640 645 675 677 711 718

720 726 727 748 749 752 756

758 766 773 775 776 778 781

783 795 797 798 809 813 834

837 844 853 863 864 899

Zonda 804

ZT Group 721

VCR Codes

This table contains the manufacturer codes for programming the remote control to operate your VCR. If your VCR brand is not listed or if the codes do not work, the remote may not control your VCR. In some cases, codes may operate some, but not all, buttons shown in this guide.

Note: If programming your VCR in AUX mode, press 1 before entering the VCR code.

ABS 792	Curtis Mathes 513 528 554
Accurian 544 588	585 591 592 594 605 607 614
Admiral 607 918	628 649 675 682 773 774
Adventura 544 588 594	Cybernex 591 675
Aiwa 501 512 544 588 594	Cyberpower 792
676 678	Daewoo 502 522 529 534 536
Akai 513 515 516 518 525 568	559 588 678 779 796
682 772	Davidson 544 594
Alienware 792	DBX 592
Allegro 502 522 529 533 678	Dell 792
779	DiamondVision 532 641
American High 554	Dimensia 585 607 649
Americast 917	Dumont 549
Apex Digital 517 851	Durabrand 533 592 594
ASA 556 801	Dynatech 544 588 594
Asha 591 675	Electrohome 512 567 676 678
Audio Dynamics 592	Electroponic 512 676 678
Audiovox 512 676 678	Emerson 506 508 512 518 519
Bang & Olufsen 794	531 534 536 544 550 554 559
Beaumarck 591 675	567 568 588 594 676 678 756
Bell & Howell 549 581	796 798 803 804
Broksonic 506 508 511 515 516	Emerex 500 790
525 550 559	ESA 502 522 529 531 678 779
Calix 512 676 678	803 804
Candle 534 592 594 675 676	Finlandia 549
678	Finlux 549 556 801
Canon 554	Fisher 549 581 789
CineVision 502 522 529 678	Fuji 554 772
779	Funai 519 544 588 594 756
Citizen 512 515 516 525 534	798 803 804
536 591 592 594 675 676 678	Garrard 544 588 594
796	Gateway 792
Colortyme 592	General Electric 528 541 554
Craig 512 591 675 676 678	585 591 605 607 649 675 773
789	774
Crosley 544 588	GFM 519 803

Table continued on next page

VCR Codes, continued

Go Video 502 507 522 524 529 591 675 678 779 912	Marantz 554 556 581 585 592 594 801
Goldstar 502 507 512 522 529 592 594 676 678 779	Marta 512 676 678
Goodmans 585	Matsushita 554 614 628 799 806
Gradiente 544 588 594	Media Center PC 792
Granada 549	MEI 554
Grundig 556 801	Memorex 506 512 515 516 525 533 544 549 550 554 581 585 588 591 594 607 614 628 675 676 678 770 771 777 780 781 782 784 786 787 788 789 799 806 809 918
Harley Davidson 544 588 594	MGA 512 567 568 591 675
Harman/Kardon 568 592 594	MGN Technology 591 675
Headquarter 581	Microsoft 792
Hewlett Packard/HP 792	Midland 591
Hi-Q 789	Mind 792
Hitachi 513 514 544 588 594 595 682 776	Minolta 595 776
Howard Computers 792	Mitsubishi 512 523 526 527 562 567 568 595 607 776 795
HP see Hewlett Packard	Montgomery Wards see Wards
Humax 521 910 911	Motorola 554 607 918
Hush 792	MTC 544 588 591 594 675
iBUYPOWER 792	Multitech 544 588 591 594
Insignia 507 803	NAD 507
Instant Replay 554	NEC 513 523 526 527 549 562 581 592 594 682 795
ITT 675	Nikko 512 676 678
JC Penney see Penney	Nikon 791
JCL 554	Niveus Media 792
Jensen 513 595 682 776	Noblex 591 675
JVC 513 523 526 527 545 561 562 581 592 594 682 795	Northgate 792
KEC 512 676 678	Olympus 554
Kenwood 513 523 526 527 562 581 592 594 682 795	Onkyo 783
Kodak 512 554 676 678	Optimus 512 549 581 607 614 628 676 678 756 770 771 777 780 781 782 784 786 787 788 799 806 809 918
LG 502 507 522 529 676 678 779	Optonica 585
Linksys 792	Orion 550 559
Lloyd's 544 588 594	
Luxor 567	
LXI 512 676 678	
M. Wards see Wards	
Magnasonic 536 756 796	
Magnavox 519 531 533 544 554 556 588 594 756 783 797 798 801 803 804	
Magnin 591 675 676 678	

Table continued on next page

VCR Codes, continued

Panasonic 554 614 628 672
770 771 777 780 781 782 783
784 786 787 788 791 799 806
809 810 912
Penney 512 554 581 591 592
594 595 675 676 678 776
Pentax 594 595 776
Pentax Research 592 594
Philco 554
Philips 520 554 556 585 783
801 803 804 911
Pilot 512 676 678
Pioneer 523 526 527 562 776
795
Polaroid 517 530
Presidian 519 804
Profitronic 591 675
Proscan 528 585 605 607 649
773 774
Pulsar 533
Quarter 581
Quartz 581
Quasar 554 614 628 770 771
786 799 806
RadioShack 512 544 581 588
594 676 678
Radix 512 676 678
Randex 512 676 678
RCA 518 528 539 541 554 585
591 595 605 607 649 675 773
774 775 776
Realistic 512 534 544 549 554
581 585 588 594 607 676 678
789 918
Ricavision 792
Ricoh 791
Rio 502 522 529 678 779
Runco 533
Salora 567
Samsung 506 524 534 591
675 755 807
Sanky 533 607 918
Sansui 513 515 516 523 525
526 527 544 550 562 588 594
682 795

Sanyo 515 516 525 549 581
591 675 789
SBR 556 801
Sceptre 549 581
Scott 508 534 559 567
Sears 512 544 549 554 581
588 594 595 676 678 776 789
Sharp 512 585 607 918
Shintom 595 772
Shogun 591 675
Singer 554 791
Signature 554
Sonic Blue 502 522 529 678
779 907 912
Sony 500 544 554 588 594
768 772 778 790 791 792 919
Stack 9 792
STS 554
Superscan 531 798 804
Sylvania 519 531 544 554 556
567 588 594 756 797 798 801
803 804
Symphonic 519 531 544 588
594 756 804
Systemax 792
Tagar Systems 792
Tandy 581
Tashiko 512 676 678
Tatung 513 682
Teac 513 544 588 594 682
Technics 554 614 628
Teknika 512 544 554 588 594
676 678
Thomas 544 588 594
Tivo 510 520 521 537 548 905
906 908 909 910 911
TMK 591 675
Toshiba 513 515 516 525 534
537 538 542 543 567 682 769
776 783 792
Totevision 512 591 675 676
678
Touch 792

Table continued on next page

VCR Codes, continued

UltimateTV 649
Unitech 591 675
Urban Concepts 672 783
Vector Research 534 592 594
Victor 561 562
Video Concepts 534 568 592
Videomagic 512 676 678
Videosonic 591 675
Viewsonic 792
Villain 544 588 594
Voodoo 792
Wards 512 528 533 534 544
554 585 588 591 592 594 595
605 607 649 675 676 678 772
773 774 776 789 918
White Westinghouse 588
XR-1000 544 554 588 594
Yamaha 581 592 594 682
Zenith 500 502 507 512 522
529 533 544 588 594 678 772
779 783 791
ZT Group 792

DVD Player Codes

This table contains the manufacturer codes for programming the remote control to operate your DVD or Blu-ray Player. If your DVD Player brand is not listed or if the codes do not work, the remote may not control your DVD Player. In some cases, codes may operate some, but not all, buttons shown in this guide. **Note:** If programming a DVD Player in AUX mode, press 1 before entering the DVD Player code.

Accurian 602 617 619 658 661
674 764 829

Advent 572 759

Aiwa 694

Akai 646 656 709 725 740 751
752 754 814 815

Alco 765

Allegro 626 683

Amphion Media Works 586
711

AMW 586 711

Anam 688

Apex Digital 580 589 635 654
655 666 710 744 757 835 839
851

Apple 642

Archos 885

Arrgo 833

Aspire Digital 558 598

Astar 612

Audiovox 580 589 630 666 710
765 826 835 837

Axion 867

B&K 701

Bang & Olufsen 569 580

BBK 566

Bel Canto Design 719 878

Blaupunkt 580 589 666 710
835

Blue Parade 719

BOSE 758 811

Broksonic 646 656 709 725
752 754 814 815

California Audio Labs 662 697
699 716 733 737 840 841 855

Cambridge SoundWorks 870

CAVS 708

CineVision 626 683

Citizen 646 656 709 725 754
814 815

Classic 695 826 882

Coby 557 634 636 761

Criterion 712

Curtis 685

Curtis Mathes 684

CyberHome 833

Cytron 904

Daewoo 626 630 657 683 852
859

Daytek 711

Denon 578 662 697 699 700
716 718 733 737 840 841 855
892

Desay 598

Diamond Vision 637 641

Disney 617 619 658 661 674
764 829

Dual 871

Durabrand 826 833 848

DVD2000 699 716

Eltax 685

Emerson 570 617 619 631 639
645 650 651 658 661 674 679
764 829

Enterprise 824

ESA 570 587 631 639 650 651
679

Eastech 587

Entiveo 587

Fisher 609 659 705

Funai 570 617 619 631 658
661 674 679 764 829

Gateway 610 870

Table continued on next page

DVD Player Codes, continued

General Electric 580 589 616
666 702 703 710 720 749 816
835 842

GFM 570 617 619 631 658 661
674 679 764 829

Go Video 610 611 615 626 673
683 691 692 693 741 820 821
822 824 826 896 899

Goldstar 611 615 626 673 683
824 899

GPX 704 826 882

Gradiente 699 716 723 745

Greenhill 580 589 666 710 835

Grundig 565 577 630 852 874

Harman/Kardon 715

Hitachi 606 652 660 668 705
706 707 823 844 860 866

Hiteker 654 655 744 839

iLive 856

Ilo 837

Initial 580 589 666 710 835
837

Insignia 570 617 619 631 647
658 661 673 674 679 717 738
764 824 829 857 871

Integra 551 583 584 719 890
Irradio 601 608

Jamo 728

JBL 715

Jensen 557 759

JMB 656 815

JVC 553 603 604 620 621 622
623 625 689 746 850 861 862
863 872 898

Jwin 742

Kawasaki 765

Kendo 848

Kenwood 579 662 697 699 700
716 733 737 840 841 855

KLH 580 589 666 710 765 835

Konka 753

Koss 564 723 745 873

Lasonic 593

Landel 680

Lenoxx 560 826

Lexicon 743

LG 611 615 626 673 683 824
899

Lifetec 634

Liquid Video 564

Liteon 602 610

Logix 852

Lumatron 673 824

Luxman 844

Luxor 848

Magnavox 565 570 572 577 601
608 617 619 631 639 650 651 658
661 672 674 679 764 803 804 829
854 874

Marantz 565 577 874

McIntosh 830 831 832 836
838 843 858

Memorex 646 656 658 709
725 754 760 814 815

Microsoft 576 616 702 703
720 749 816 842

Mintek 580 589 666 681 710
835

Mitsubishi 767

Momitsu 748

NAD 507 611 615 664 673 824
899

Nakamichi 596

Nesa 580 589 666 710 835

Next Base 680

Nexxtech 599 871

Niro 750

Norcent 634 711 871

Onkyo 551 583 584 672 890

Oppo 566 878 885

Oritron 564 723 745

Panasonic 624 627 638 662
663 672 687 697 699 714 716
733 734 737 813 840 841 855
Philco 617 619 658 661 674
764 829

Table continued on next page

DVD Player Codes, continued

Philips 565 572 574 577 601
608 610 617 619 658 661 672
674 698 713 743 764 766 829
848 854 873 874

Pioneer 653 665 686 719 812
877 878 879 880

Polaroid 586 617 635 636 640
647 651 677 851

Polk Audio 565 577 874

Portland 751

Presidian 617 619 658 661
674 764 829

Prima 759

Proceed 654 655 744 839

Proscan 616 702 703 720 749
816 842

Provision 761

Pye 674

Qwestar 723 745

RCA 580 583 584 589 616 647
666 688 690 702 703 710 719
720 749 760 765 816 835 842
867 901

Regent 560

Rio 626 683

Rotel 553 850 861 862 863

Rowa 555

Saba 762

Sampo 724 865

Samsung 571 606 643 644
652 662 667 668 691 693 697
699 716 733 737 740 741 747
805 820 821 823 840 841 844
845 849 855 864 866 869 875
881 895 896 900

Sansui 646 656 709 725 754
814 815

Sanyo 609 646 656 659 705
709 725 754 814 815

Schneider 601 608

Sensory Science 610

Sharp 573 617 619 658 661
669 674 696 727 750 764 829
865 903

Sharper Image 763

Sherwood 751 870

Sherwood Newcastle 870

Shinco 589

Shinonic 681 731 837

SonicBlue 626 683

Sony 582 613 618 632 670
671 729 730 731 817 818 827
830 831 832 836 838 843 846
847 858 868 883 884 902

Sungale 597

Superscan 531 570 639 650
651 803 804

SVA 800

Sylvania 531 570 617 619 631
639 645 650 651 658 661 674
679 764 803 804 829

Symphonic 531 617 619 639
650 651 658 661 674 764 803
804 829

Teac 732 765

Technics 662 697 699 716 733
737 840 841 855

Technosonic 886

Techwood 664

Terapin 887

Theta Digital 719

TiVo 888

Toshiba 575 583 584 646 648
656 672 709 721 725 735 736
754 814 815 819 825 828 834
876 888 893 894

Trutech 833

Urban Concepts 672

US Logic 681

Venturer 765

Vizio 726 897

Westinghouse 629

Xbox 576 616 702 703 720
749 816 842

Yamaha 565 577 601 602 608
662 697 699 716 733 737 739
840 841 853 855 874 889 891

YBA 711

Zenith 611 615 626 672 673
683 824 899

Tuner/Amplifier Codes

This table contains the manufacturer codes for programming the remote control to operate your tuner/amplifier. If your tuner/amplifier is not listed or if the codes do not work, the remote may not control your tuner/amplifier. In some cases, codes may operate some, but not all, buttons shown in this guide. **Note:** If programming a tuner/amplifier in AUX mode, press 2 before entering the Tuner/Amplifier code.

Accuphase 690	Carver 681 685 718 720 725
Acoustic Research 703 853	Cary Audio Design 689
Acurus 691	Casio 717
ADC 652 664	CCE 802
Adcom 644 673	Cinema Sound 696
Admiral 747	Clarinet 717
ADS 748	Classe 697
Advent 860	Classic 802 819
Aiwa 636 667 681 683 685 718 720 725 730 839	Coby 679 728 731 780 811 815 834
Akai 740	Counterpoint 754
Alco 659	Craig 856
Altec Lansing 738	Creative 723
AMC 770 855	Criterion 734
Amphion Media Works 660	Crown 857
Amplifier Technologies 710	Curtis 731 777 780 811 815
AMW 660	Curtis Mathes 772
Anam 653 776	Daewoo 727
Angstrom 692	Dell 729
Anthem 750	Denon 669 670 680 682 696 744 759 760 762 792 809
Apex Digital 812	Dimensia 703 853
Aragon 691	Durabrand 698
Arcam 725 726	EAD 756
Atlantic Technology 712	Eclipse 665
Audio Research 751	Elan 699
AudioSource 693	Emerson 820
Audiotronic 685	Enlightened Audio Designs 756
Audiovox 659 826	ESA 757
B&K 752	Fisher 824 850
Bang & Olufsen 676	Fosgate 700 712
Bel Canto Design 694 710	Garrard 758 851
BOSE 639 656 704 753 761	Gateway 743 831 833
Boston Acoustics 713	Glory Horse 728
Brumester 647	Go Video 742
California Audio Labs 686	
Cambridge SoundWorks 831	
Capetronic 652 664 798	

Table continued on next page

Tuner/Amplifier Codes, continued

Goldstar 814	Motorola 737
GPX 834	NAD 648
Hafler 758	Nakamichi 649 658
Harman/Kardon 640 685 714	NEC 641
725	Nexxtech 711 825
Hitachi 850	Nikko 708
iLive 835	Niro 779
Initial 735 789 826	Norcent 711 731 780 811 815
Insignia 711 770 825	825 834
Integra 650 695 785 788 790	Nova 731 780 811 815 834
791 838	Omnifi 745
Jamo 837	Onkyo 650 671 695 785 788 790
JBL 642	791 822 838
JC Penney see Penney	Optimus 635 652 653 664 772
Jensen 775 860	775 798 824 842 845
JVC 637 652 663 664 728 755	Oritron 739
786 827 848	Outlaw 712
Kenwood 658 662 668 774	Panasonic 643 672 677 678
795 828 829 830 840	715 749 768 783 797 799 804
KLH 659 812	805 808 810 816 817 818 821
Klipsch 691	843
Knoll Systems 701	Parasound 647
Koss 739	Penney 717
Lasonic 746	Philco 781
Left Coast 640	Philips 640 685 716 721 725
Lenox 698 736	726 751 860
Lexicon 724	Pioneer 635 652 664 666 675
LG 814 836	767 772 798 806 813 842 844
Linn 685 725	845
Liquid Video 739	Polaroid 679 812
Lloyd's 717	Polk Audio 640 645 685 725
Logitech 702	764
M. Wards see Wards	Prima 860
Magnavox 652 664 685 717	Proscan 703 852 853
725	Pyle 782
Magnum Dynalab 858	Quasar 799
Marantz 640 645 685 725 764	RadioShack 728
787 854	RCA 635 652 653 659 664 675
Mark Levinson 705	703 719 772 776 842 845 852
McIntosh 645 706 764	853
MCS 719	Realistic 717 747
Memorex 777	Regent 736
Midiland 707	Rio 661 729
Mitsubishi 859	Rotel 674
Modulaire 717	
Mondial 691	

Table continued on next page

Tuner/Amplifier Codes, continued

Saba 741
Samsung 688 807
Sansui 685 719 725
Sanyo 824 850
Sharp 832
Sharper Image 728
Sherwood 743 770 831 833
Sherwood Newcastle 743 833
Shinsonic 735 789 826
Shure 641
Sonic Blue 661 729 742
Sonic Frontiers 750
Sony 638 654 683 730 765 766
769 771 773 778 784 793 794
803 846
Soundesign 708
Soundmatters 763
SpeakerCraft 763
Stereophonics 635 842 845
Sunfire 658 840
Symphonic 747
TAG McLaren 796
Teac 653 659 851
Technics 643 672 768 804 805
808 810 843
Techwood 798
Thomson 800
Thorens 685
Toshiba 675 822
Vector Research 801
Venturer 659
Victor 637 827
Vizio 709 831
Wards 635 685 725 730 853
Yamaha 646 650 651 655 657
663 684 687 732 733 786 823
841 847 848 849
Yorx 708 717
Zenith 814

DVR Codes

This table contains the manufacturer codes for programming the remote control to operate your DVR. If your DVR brand is not listed or if the codes do not work, the remote may not control your DVR. In some cases, codes may operate some, but not all, buttons shown in this guide. **Note:** If programming a DVR in AUX mode, press 1 before entering the DVR code.

ABS 792	Proscan 616 702 703 842 916
Alienware 792	RCA 521 580 583 584 589 647
Americast 917	688 702 703 710 760 867 911
Bang & Olufsen 794	916
BellSouth 917	ReplayTV 907 912
CyberPower 792	Samsung 521 662 693 697
Dell 792	733 737 747 823 840 841 855
Director 913	864
Gateway 792 870	Scientific Atlanta 914
General Instrument 913	Sharp 573 619 658 661 674
GOI 722	696 750 764 829
Hewlett Packard 792	Sonic Blue 626 907
HNS 521	Sony 510 792 905 908 909
Howard Computers 792	Stack 9 792
HP 792	Supercable 915
HTS 722	Systemax 792
Hughes Network Systems	Tagar Systems 792
521 910	Tivo 510 520 548 905 906 908
Humax 910	909 910 911
Hush 792	Toshiba 709 721 725 754 792
iBUYPower 792	876 888
Jerrold 913	Touch 792
JVC 722 746	UltimateTV 916
Linksys 792	Viewsonic 792
Media Center PC 792	Voodoo 792
Microsoft 576 616 702 703	Zenith 615 626 683 899 917
792 842	ZT Group 792
Mind 792	
Motorola 913	
Niveus Media 792	
Northgate 792	
Pace 914	
Panasonic 687 697 733 907	
Philips 521 548 574 601 608	
610 619 658 661 674 698 713	
743 829 848 854 906 910	
Pioneer 653 686 878 914	

Combo Codes

This following tables contain the manufacturer codes for programming the remote control to operate combined devices. If your combined device brand is not listed or if the codes do not work, the remote may not control your combined device. In some cases, codes may operate some, but not all, buttons shown in this guide.

TV/VCR Codes

Note: Program the remote control in TV mode using the TV code and then in DVD mode (or in AUX—press 1 before entering the VCR code) using the VCR code.

Aiwa

TV Code 667

VCR Code 501

America Action

TV Code 541 657 662 682

Audiovox

TV Code 541 657 662 682

Bang & Olufsen

TV Code 665

VCR Code 537

Broksonic

TV Code 748 752 899

Citizen

TV Code 664

VCR Code 536 796

Colt

TV Code 660

VCR Code 535

Curtis Mathes

TV Code 755

Daewoo

TV Code 664

VCR Code 536 796

Emerson

TV Code 664 748 752 756
899

VCR Code 536 756 796

Funai

TV Code 756

VCR Code 533 544 588

General Electric

TV Code 645 661 749 776

863 864

VCR Code 591 675

GoldStar

VCR Code 676

Gradiente

TV Code 540

Harley Davidson

TV Code 756

VCR Code 533 544 588

Hitachi

TV Code 756

VCR Code 533 544 588

JVC

TV Code 557 649 735 736

737

VCR Code 545

Lloyd's

TV Code 756

VCR Code 533 544 588

Magnasonic

TV Code 664 756

VCR Code 536 756 796

Magnin

TV Code 661

VCR Code 591 675

MGA

TV Code 661

VCR Code 591 675

Table continued on next page

Combo Codes, continued

TV/VCR Codes, continued

Magnavox

TV Code	756 876 887 888 891 892 893 894
VCR Code	533 544 588 756 797

Memorex

TV Code	869
VCR Code	614 628 676 770 771 777 780 781 782 783 784 786 787 788 799 806 809

Optimus

TV Code	756 869
VCR Code	614 628 756 770 771 777 780 781 782 783 784 786 787 788 799 806 809

Orion

TV Code	748 752 899
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Panasonic

TV Code	647 765 811 860 861 862 867 868 869 870 871 872 873 874 875 877 878 879 880 881 882 883 884 885 886 889 890 895 900
VCR Code	614 628 770 771 777 780 781 782 783 784 786 787 788 799 806 809

Penney

TV Code	661
VCR Code	591 675 676

Philips

TV Code	876 887 891 892 893 894
VCR Code	801

RadioShack

TV Code	756
VCR Code	533 544 588

Quasar

TV Code	860 868 869 870
VCR Code	614 628 799 806

RCA

TV Code	641 645 661 776 863 864
VCR Code	591 675

Samsung

TV Code	755
VCR Code	755 775 807

Sansui

TV Code	748 752 756 899
VCR Code	533 544 588

Sanyo

TV Code	661
VCR Code	591 675

Sears

TV Code	756
VCR Code	533 544 588 676

Sharp

TV Code	521 546 556 740
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Sony

TV Code	500 640 677 756 758 781 783 795 797 798 837 844
VCR Code	533 544 588

Sylvania

TV Code	887 888 891 892 893 894
VCR Code	797

Table continued on next page

Combo Codes, continued

TV/VCR Codes, continued

Symphonic

TV Code 756

VCR Code 533 544 588 756

Thomas

TV Code 756

VCR Code 533 544 588

Toshiba

TV Code 617 666 755

VCR Code 538 542 543 769
776

Zenith

TV Code 748 752 756 899

VCR Code 533 544 588

Combo Codes, continued

TV/DVD Codes

Note: Program the remote control in TV mode using the TV code and then in DVD mode (or in AUX—press 1 before entering the DVD code) using the DVD code.

Accurian

TV Code 623

AEG

TV Code 624

Advent

DVD Code 759

Akai

TV Code 612 622 624 750
754 807 808 865
866 906 908
DVD Code 515 516 525 646
656 709 725 754
814 815

Apex Digital

TV Code 552
DVD Code 635 757

Audiovox

TV Code 624
DVD Code 630

Axion

TV Code 636
DVD Code 867

Broksonic

TV Code 622 754 865 866
908
DVD Code 515 516 525 646
656 709 725 752
754 814 815

Bush

TV Code 750 754
DVD Code 634

Citizen

TV Code 622 750 754 865
866 908
DVD Code 515 516 525 646
656 709 725 754
814 815

Conia

TV Code 743 815

Coby

DVD Code 634 636

Curtis

TV Code 573

Cytron

TV Code 904
DVD Code 904

Denver

TV Code 624

Diamond Vision

TV Code 643
DVD Code 637

Dynex

TV Code 698 701 706

Emerson

TV Code 618 643 668 672
679
764 777 829 838
839
DVD Code 570 617 619 631
645 658 661 674
679 764 829

ESA

TV Code 618 679 777 829
838 839
DVD Code 570 631 679

Funai

TV Code 618 679 777 829
838 839
DVD Code 570 631 679

GFM

TV Code 618 679 777 829
838 839
DVD Code 570 631 679

Goodmans

DVD Code 634

Grundig

TV Code 750 754

Table continued on next page

Combo Codes, continued

TV/DVD Codes, continued

Haier

TV Code 693

Hitachi

TV Code 786 788 790 791

iLo

TV Code 625

Initial

TV Code 625

Insignia

TV Code 618 671 679 698
751 777 829 838
839

DVD Code 570 631 647 679

Jensen

DVD Code 759

JVC

TV Code 662

Konka

TV Code 510

DVD Code 753

LG

TV Code 553 561 766 773
809

Magnavox

TV Code 618 625 646 679
767 777 782 829
838 839

DVD Code 570 631 679

Mintek

TV Code 625

Mirror

DVD Code 634

Panasonic

TV Code 644 811 869

DVD Code 663

Polaroid

TV Code 534 678 751

DVD Code 635 636 647 677

Prima

DVD Code 759

RCA

TV Code 503 522 636 637
639 650 671 742
751 763 779 805
831 859

DVD Code 647 867

Samsung

TV Code 680 684

DVD Code 740

Sansui

TV Code 622 750 865 866
908

DVD Code 515 516 525 646
709 725 775 814
815

Sharp

TV Code 546 556 605 898

DVD Code 573

Sylvania

TV Code 567 568 618 668
672 679 723 724
764 777 829 838
839

DVD Code 570 617 619 631
645 658 661 674
679 764 829 815

Toshiba

TV Code 622 666 750 754
771 793 802 847
848 849 850 851
852 854 855 865
866 908

DVD Code 515 516 525 646
648 656 709 725
754 814 815

Viore

TV Code 915

Westinghouse

DVD Code 629

Combo Codes, continued

DVD/VCR Codes

Note: Program the remote control in DVD mode using one of the listed DVD codes, and then in AUX mode, first pressing 1 and then using the listed VCR code.

Accurian

DVD Code 617 619 658 661
674 764 829

VCR Code 533 544 588

Allegro

DVD Code 626 683

VCR Code 502 522 529 678
779

Apex Digital

DVD Code 517 851

VCR Code 517 851

Broksonic

DVD Code 515 516 525 646
656 709 725 754
814 815

VCR Code 511

CineVision

DVD Code 626 683

VCR Code 502 522 529 678
779

Daewoo

DVD Code 626 683

VCR Code 502 522 529 678
779

Emerson

DVD Code 617 619 658 661
674 764 829

VCR Code 519

Funai

DVD Code 617 619 658 661
674 764 829

VCR Code 519

GFM

DVD Code 617 619 658 661
674 764 829

VCR Code 519

Go Video

DVD Code 507 524 611 615
626 673 683 692
691 693 741 820
821 822 824 896
899

VCR Code 502 522 529 678
779

GoldStar

DVD Code 507 611 615 673
824 899

VCR Code 502 522 529 678
779

Hitachi

DVD Code 660 706 707 860
VCR Code 533 544 588

JVC

DVD Code 622 623 689
VCR Code 503 561

LG

DVD Code 507 611 615 673
824 899
VCR Code 502 522 529 678
779

Magnavox

DVD Code 617 619 658 661
674 764 829
VCR Code 533 544 588 519

Memorex

DVD Code 515 516 525 646
656 709 725 754
814 815

Panasonic

DVD Code 624
VCR Code 777 780

Philips

DVD Code 617 619 658 661
674 764 829

Polaroid

DVD Code 517 851
VCR Code 517 851

Combo Codes, continued

DVD/VCR Codes, continued

Presidian

DVD Code 617 619 658 661
674 764 829

VCR Code 519

RCA

DVD Code 616 690 702 703
720 749 816 842

VCR Code 528 605 607 649
773 774

Rio

VCR Code 502 522 529 678
779

Samsung

DVD Code 524 667 691 693
741 820 821 896

Sansui

DVD Code 515 516 525 646
656 709 725 754
814 815

VCR Code 515

Sanyo

DVD Code 609 659
VCR Code 549 581

Sharp

DVD Code 573 669 727 903
VCR Code 573 585

Sony

DVD Code 613 618 629 729
730 731 768 778
817 818 847 883

VCR Code 618 768 778

Sylvania

DVD Code 617 619 658 661
674 764 829

VCR Code 519 533 544 588
756

Symphonic

DVD Code 617 619 658 661
674 764 829

VCR Code 519 533 544 588

Toshiba

DVD Code 575 672 735 736
819 825 828 834
888

VCR Code 672 783

Zenith

DVD Code 507 611 615 626
673 683 824 899

VCR Code 502 522 529 678
779

TV/DVD/Tuner Codes

Note: Program the remote control in TV mode using the TV code and then in DVD mode and then in AUX mode (press 2 before entering the tuner code) using the tuner code.

Panasonic

TV Code 811

DVD Code 734

Tuner Code 678

Combo Codes, continued

TV/DVD/VCR Codes

Note: Program the remote control in TV mode using the TV code and then in DVD mode using the DVD code, and then in AUX mode (press 1 before entering the VCR code) using the VCR code.

Akai

TV Code 680 684

DVD Code 740

Broksonic

TV Code 648

DVD Code 656 752

Diamond Vision

TV Code 659

DVD Code 532 641

VCR Code 532 641

Emerson

TV Code 646 767

DVD Code 531 570 639 650
651 803 804

ESA

TV Code 646 747

DVD Code 531 570 639 650
651 803 804

Insignia

TV Code 618 679 777 829
838 839

Funai

VCR Code 531 798

Magnavox

TV Code 618 646 679 767
777 829 838 839

DVD Code 531 570 639 650
651 803 804

VCR Code 531 798

Memorex

TV Code 648

Panasonic

TV Code 647 811 860 861

862 867 868 869

870 871 872 873

874 875 876 877

878 879 880 881

882 883 884 885

886 889 890 895

896 900

DVD Code 638 734 810 813

VCR Code 810 813

Polaroid

DVD Code 530 640

VCR Code 530 640

RCA

DVD Code 541 775 901

VCR Code 541 775 901

Samsung

TV Code 680 684

Sharp

DVD Code 573 669 727 903

VCR Code 573

Superscan

DVD Code 531 570 639 650

651 803 804

Sylvania

TV Code 646 767

DVD Code 531 570 639 650

651 803 804

Symphonic

TV Code 646 767

DVD Code 531 570 639 650

651 803 804

Toshiba

TV Code 617

DVD Code 893 894

Troubleshooting

Use this information if you have a problem using the remote. To solve a particular problem, do the following:

- Find the information that relates to the problem you are experiencing. Try the suggested solution for that problem.
- Make sure your remote control has fresh batteries. If you see the Remote Battery Low warning on your TV screen, it is time to change the batteries. Follow the instructions on page 2.
- Make sure you have a direct line of sight between the remote and the receiver.
- Visit www.dishnetwork.com.

While performing a remote control procedure, the remote control stops working.

What to do: Start over again. If you don't press a button for 20 seconds in a programming sequence, the remote shuts off its programming function.

When you press a button on the remote control, the equipment doesn't do what you expect.

What to do: Point the remote control directly at the TV, with no objects blocking the signal path. The remote control uses IR signals to control the receiver. IR signals travel less than 40 feet, and cannot go through walls or other solid objects.

If the batteries are missing or dead, replace them with fresh AAA-size batteries. If the remote has fresh batteries, check whether you put them in correctly. If you didn't, take them out and put them in the right way.

When you try to enter TV programming mode, all the mode LEDs flash.

What to do: Replace the batteries (see page 2).

Troubleshooting, continued

Your remote control does not work well.

What to do: Move your receiver to different locations. For best results, place the receiver as high as possible, above all other equipment in your entertainment center. There may be IR interference from objects near the receiver.

Your picture is snowy (or black or blue).

What to do: Make sure your TV is tuned to the correct channel. You may have accidentally changed the channel on your TV. Check the Reference Table to see what channel your TV is tuned to. Program SAT Auto-Tune to avoid this in the future (see *SAT Auto-Tune* on page 16).

When you press the remote control MUTE or VOLUME button, nothing happens.

What to do: Program the remote to control your TV. See *Programming Remote to Control Another Device* on page 11 or page 13.

The receiver does things even though you haven't pressed any remote control buttons.

What to do: See *Changing the Remote and Receiver Address* on page 28 for instructions to correct the possibility of UHF signals from a neighbor's remote controlling your receiver.

Your remote control isn't working.

What to do: Make sure the remote control is in the correct mode (SAT, TV, DVD, or AUX).

Make sure you are using the correct remote control (TV1 or TV2) for your locations (applicable to multi-room receivers only).

Change the batteries as described on page 2.

If you have a 21.1 remote, check the UHF/IR switch setting as described on page 1.

Troubleshooting, continued

Your UHF Pro remote control does not work well from far away.

What to do: Make sure the UHF antenna is connected to the receiver and not touching anything else.

Vary the angle of the receiver's UHF antenna.

Locate the UHF antenna tip away from other electronics equipment or metal surfaces, even if separated by wooden shelving.

Move the receiver to different locations. For best results, place the receiver as high as possible, above all other equipment in your entertainment center.

Place the UHF antenna outside the entertainment center by using a coaxial cable to connect it to the receiver.

Move any nearby off-air antenna away from the UHF remote antenna. Do not place an off-air antenna on your receiver.

Your PIP (Picture-In-Picture) button isn't working.

What to do: If your receiver isn't in Single Mode, press the MODE button on the front panel (if available).

Verify your receiver has the PIP feature. If your receiver is not PIP capable, contact DISH Network about upgrading to a receiver with the PIP feature.

Limited Warranty



This Limited Warranty is a legal document. Keep it in a safe place. Remember to keep your Sales Receipt for warranty service. We will consider any items you return without a copy of the Proof of Purchase to be out of warranty.

This warranty extends only to the original user ("you," "your") of the DISH Network remote control and is limited to the purchase price of the remote control. EchoStar Technologies L.L.C., formerly known as EchoStar Technologies Corporation, and its affiliated companies ("we," "our," "us") warrant this remote control against defects in materials or workmanship as follows.

For one year from the original date of purchase, if we find the remote control is defective subject to the limits of this warranty, we will replace the remote at no charge for parts or labor. We warrant any such work done against defects in materials or workmanship for the remaining part of the original warranty period.

This warranty does not cover installation of the DISH Network System; consumer instruction; physical set up or adjustment of any consumer electronic equipment; remote control batteries; signal reception problems; loss of use of the equipment; unused programming charges due to equipment malfunction; cosmetic damage; damage due to lightning, electrical or telephone line surges, fire, flood, or other acts of Nature; accident; misuse; abuse; repair or alteration by other than our factory service; negligence; commercial or institutional use; improper or neglected maintenance; equipment sold AS IS or WITH ALL FAULTS; equipment removal or reinstallation; shipping damage if the equipment was not packed and shipped in the manner we prescribe; nor equipment purchased, serviced, or operated outside the contiguous United States of America.

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. WE SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS DEVICE, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS DEVICE. UNDER NO CIRCUMSTANCES SHALL OUR LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS DEVICE. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS DEVICE IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. WE RESERVE THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF WE DETERMINE ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS DEVICE NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE DEVICE HAS BEEN OPENED BY AN UNAUTHORIZED PERSON (with the exception of opening the battery cover).

This warranty gives you specific legal rights which may vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damages, or allow limitations on the duration of an implied warranty, so those limitations may not apply to you.

Accessory Warranty

An accessory is any DISH Network branded equipment, displaying the DISH Network logo, excluding the receiver, Smart Card, cables and hookups, and non-mechanical components. A one-year warranty becomes effective upon the activation of the DISH system or date of purchase, if bought separately. A proof of purchase is required to verify the purchase date. If an accessory has an expired warranty, no exchange will be issued. You may purchase replacement accessories from DISH Network or your local retailer.

If You Need Help

1. Review this *User Guide*.
2. See *Troubleshooting* on page 55.
3. Visit www.dishnetwork.com/chat for 24/7 support.
4. Call the Customer Service Center at **1-800-333-DISH (3474)**.

Regulatory Factors

This device complies with Part 15 of 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.

Changes or modifications to this device may void your authority to operate this equipment.

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 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 following one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

Reference Table

Write down your remote address, channel numbers/inputs, TV, VCR, DVD player, and stereo equipment codes as you program them for future reference.



Remote Address

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Channel or Input for
Cable Programming

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If you enter a “1” as the last number of your code, your remote is in Limited Mode (see page 15 for more details).

TV Code



			1
--	--	--	---

(Optional)

VCR/DVD Player Code



			1
--	--	--	---

(Optional)

Auxiliary Equipment Code



				1
--	--	--	--	---

(Optional)

To read out your remote codes, see page 14 for instructions.

For all your customer needs,
go to **www.dishnetwork.com/chat**
or call the Customer Service center
at **1-800-333-DISH (3474)**

