

Remote User Guide



dish
NETWORK®

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 20.0 Remote

The 20.0 remote does not require any configuration. Go to *Insert the Batteries* (page 3).

Configuring the 21.0 Remote

Complete the following steps if you are using the 21.0 remote with TV1.



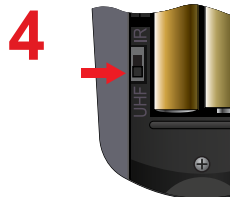
Pull the remote battery cover off.



Separate the key from the remote by inserting your thumbnail or a coin in the crease. Remove the key by grasping at the bottom.



Insert the key face up and slide into place.



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 for TV1.

Set UHF/IR SWITCH to either UHF or IR.

Configuring the 21.0 Remote

Complete the following steps if you are using the 21.0 remote with TV2.



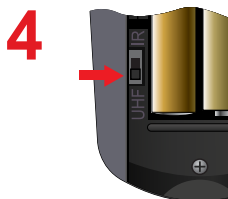
Pull the remote battery cover off.



If the blue 2 key is not showing on the remote, separate the key from the remote by inserting your thumbnail or a coin in the crease. Remove the key by grasping at the bottom.



Insert the key face up and slide into place.



Decide whether to use IR or UHF signals for the remote. The standard setting for TV2 operation is UHF. If you wish to use IR signals, you need an optional accessory, TV2 IR Converter, available through DISH Network.

Set UHF/IR SWITCH to either UHF or IR.

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 pages 5-6 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 20.0 and 21.0 IR Remote Work with Receiver

For 20.0 and 21.0 IR, TV1

Use the following instructions to configure your remote while using IR signals for TV1.

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 21.0 UHF Remote Work with Receiver

For 21.0 UHF, TV1 or TV2

Use the following instructions if you have configured your remote to use UHF signals for either TV1 or TV2.



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



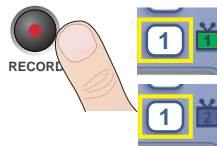
Turn your receiver and TV on, and press SYSTEM INFO on the front of the receiver.

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.

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



DVD Mode

DVD



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.

DVR Functions, continued

The on-screen bar shows how far you've gone. Of course, you cannot forward into the part of a live program that hasn't been broadcast yet. Press and release to skip forward through recorded programs. Press and hold before releasing to fast-forward quickly (x4). If pressed and released once in fast forward mode, forwarding video increases to second speed (x60). 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.



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.



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



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

Programming Remote to Control Another Device

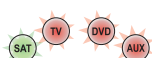
Scanning the Remote Database

1



Turn the device on.

2



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

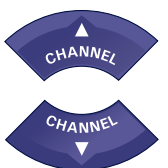
3



Skip this step if programming TV or DVD Mode buttons.

For AUX Mode only. Press
0 for second TV.
1 for second DVD/VCR.
2 for tuner, amplifier, or audio receiver.
Press the STAR (*) button.

4



Press either UP ARROW or DOWN ARROW on the remote repeatedly (one press per second) until device turns off.

If the device turns off, continue to the next step. If the device remains on, keep pressing UP ARROW or DOWN ARROW. When all codes have been tried, the Mode button flashes eight times. Try *Learning From Another Device's Remote* on page 25.

5



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

6



Turn the 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.

Programming Remote to Control Another Device

Entering a Code

1



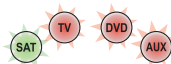
Turn the device on.

2



Find the brand name of the device listed in the code tables that start on page 30.

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.
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 16.

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



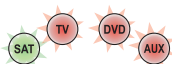
If you are unable to find a code that works or if all the keys are not supported, go to *Learning From Another Device's Remote* on page 25 to teach the key to the DISH Network remote.

If you are unable to find a code that works, try the instructions for *Scanning the Remote Database* on page 12.

Displaying Device Code

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

1



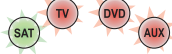
Press and hold the Mode button until all the Mode buttons light up and then release it. When you release the Mode button, the selected Mode button flashes.

2



Press and release POUND (#) twice.

3

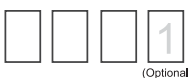


The Mode button flashes a number of times corresponding to the value of the stored device code. For example, if the stored device code is 593, the mode button flashes five times, pauses, flashes nine times, pauses, and flashes three times. A quick flash is for zero.



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.


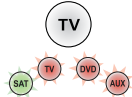




- 3**  Press POUND (#).

SAT Auto-Tune

Most snowy, blue, or black screen issues occur because the TV is set to the wrong channel. Using the SAT Auto-Tune feature helps prevent that issue 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 the SAT button is pressed, the remote sends that channel to the TV.


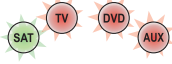

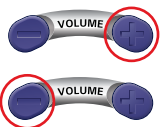


This feature is enabled by default; however, if you want to use this feature, the channel must be programmed by following these steps.

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 (up to three digits in range of 002 to 125), for example channel "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 17).






- 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 (up to three digits in range of 002 to 125), for example channel "003" 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.

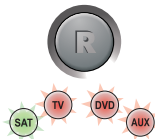
- 1**  Press and hold DVD until it stays lit.
- 2**  Press STAR (*).
- 3**  Enter 00 or 000.
- 4**  Press POUND (#).

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 17) and for your DVD/VCR (see page 19).

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.

1



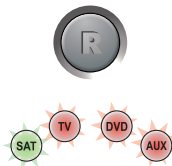
Press and hold RECOVER until all Mode buttons light up.

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.


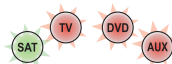




4






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.


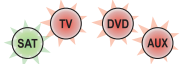




- 1**  Press and hold AUX until all Mode buttons are lit, then release it. The AUX mode button blinks.

- 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 instead of the TV mode button.

Control TV Volume

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

- 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 instead of the AUX mode button.

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



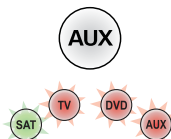
Turn on the second receiver and open System Info screen.

2



Write down the TV2 address 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. This procedure is also applicable if, after you have programmed your DISH Network remote to control your device (in TV, DVD, or AUX modes), some of the commands are not functioning as you expect. The learning function of your DISH Network remote control can support these commands.

The remote control can learn commands in two ways:

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

To teach your DISH Network remote control specific commands for your equipment, complete the following steps.

- 1** Ensure the DISH Network remote control is programmed to the desired remote address (see page 5 or 6).

Learning from Another Device's Remote, continued

- 2** Place both your DISH Network remote and the original equipment's remote control on a flat, stable surface.
- If you've found a code for that device, first program the code using the instructions for *Entering a Code* on page 13 or *Scanning the Remote Database* on page 12. If the device code has been programmed, press and release RECALL, then hold the RECORD button for about three seconds until the Mode button is lit again. The 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 for about three seconds until the Mode button is lit. The button remains lit while learning.



- 3** On the DISH Network remote, press and hold the Mode button for your equipment for about three seconds until all the Mode buttons light up, and then release it. Your selected Mode button blinks.
- 4** Point the front of the original device's remote to face the small square (IR window) on the front, left-hand side of your DISH Network remote, as shown above.

Learning from Another Device's Remote, continued

- 5** On your DISH Network remote, press the button you want to teach.
- 6** On the original device's remote control, press and hold the button you want learned. 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. You may need to press the button on the original remote several times for the DISH Network remote to 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 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 30 seconds. The DISH Network remote control times out and returns to normal operations.

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.

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

Discrete Codes

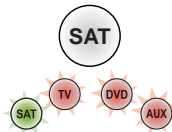
Discrete On and Off IR-only remote-control commands are used by installers when programming macro commands into universal remotes. Using an On-only or Off-only command is more effective than a toggle On/Off command when trying to ensure the receiver is reliably in one state or the other.

1



Program the DISH Network remote to the desired remote address (see *Changing the Remote and Receiver Address*, page 29).

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.

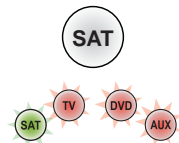
1



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 equipment brand is not listed or if the codes do not work, the remote may not control your equipment. 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 658 730	Bradford 657 682
Acer 511	Brilliant 558
Action 662	Brockwood 627
Admiral 521 572 675 739 834 835	Broksonic 682 748 750 752 754 834 899 908
Advent 653 842 912	ByD:sign 792
Adventura 840	Candle 506 523 525 536 627 654 840
Aiko 727 778	Candle/Citizen 573
Aiwa 667	Capehart 519 627
Akai 570 573 592 612 627 652 754 795 807 808 906 907 908	Carnivale 627
Alaron 534	Carver 761
Albatron 692 804	CCE 528 816
Alleron 534	Celebrity 652 795 797 798 807
A-Mark 620 804	Celera 744 745
Ambassador 686	Changhong 744 745
America Action 682	Cineral 697
Ampro 691	Circuit City 627
Amtron 657	Citizen 506 516 523 524 525 590 627 654 657 658 664 680 727 778
Anam 682	Clairtone 698
Anam National 509 541 620 651 657 662	Clarion 682
AOC 505 506 519 520 573 582 620 627 653 654	Coby 626 633
Apex 552 595 743 744 745 757 771 802 815	Colortyme 573 627 654
Archer 620 804	Colt 660
Astar 594	Commercial Solutions 645 650
Audiovox 528 565 620 623 624 657 662 682 778 832	Concerto 523 627 654
Aventura 733	Contec 682
Axion 636	Contec/Cony 541 655 657 658 662
Bang & Olufsen 514 665	Craig 536 541 657 662 682 694
Baycraft 536	Crosley 761
Baysonic 682	Crown 536 656 657 682 761
Belcor 627 773	CTX 804
Bell & Howell 590 675 683	
Benq 511 535	

Table continued on next page

TV Codes, continued

Curtis Mathes 503 506 516 528 572 573 590 627 641 645 650 654 658 680 683 739 761 830 832	830 832 857 859
CXC 541 657 662 682	Gibralter 501 627 711 813
Cytron 903 904	Go Video 696
Daewoo 505 524 528 530 531 573 627 630 653 654 658 664 684 719 727 778 816 832	Goldstar 505 523 545 566 573 627 653 654 655 658 693 720 730 761 897
Daytron 627 654 658	Gradiente 540
Dell 518 676 772 773 774	Granada 627
Denon 786	Grand 627
DiamondVision 546 643 659	Grunpy 534 657 682
Dimensia 503 645 830	Haier 515 843
Dixi 566 620 761 897	Hallmark 627 654
Dumont 501 627 711 813	Harley Davidson 756
Durabrand 533 627 682 733 834 843	Harman/Kardon 561 627 761
Dwin 572 739	Harvard 657 682
EchoStar 742 763	Havermy 572 739
Electroband 652 795 797 798 807	Helios 901
Electrograph 507	Hello Kitty 528 832
Electrohome 573 627 651 652 654 709 728 795 807	Hewlett Packard 712 911
Element 591 669	Hinari 534
Emerson 528 534 536 541 573 590 618 627 642 646 654 655 657 658 662 664 668 682 683 733 777 816 832 834 846 899	Hisense 759
Emprex 597	Hitachi 523 549 554 585 627 638 654 655 658 756 786 788 789 790 791
Envision 506 573 627 654	HP 599 712 721 911
Epson 708	Hyundai 695
ESA 733	iLo 559 596 625
Fisher 542 590 595 683 802	IMA 657
Fortress 573	Infinity 566 656 761 897
Fujitsu 534 602 603 694	InFocus 616
Funai 534 541 587 657 662 682 694 733 756	Initial 625
Futuretech 541 657 662 682 694	Insignia 538 539 751
Gateway 507 511 710	Inteq 501 711 813
General Electric 503 508 509 528 543 544 627 645 650 651 654 661 690 728 742 749 779	Janeil 840
	JBL 566 656 761 897
	JC Penney see Penney
	JCB 652 795 797 798 807
	Jensen 502 537 556 573 627 653 654 842 912
	JVC 508 557 642 649 655 658 713 714 715 735 736 737 812 817
	Kawasho 561 573 627 652 654 795 807

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TV Codes, continued

Kaypani 519	Mintek 625
KEC 682	Minutz 857
Kenwood 506 573 627 654 716	Mitsubishi 504 505 542 570
KLH 595 744 745 802	571 572 573 613 614 627 653
Kloss 561 627	654 725 728 739 787 799
Kloss Novabeam 657 723	Mitsui 769
724 840	Monivision 692 804
Konka 510	Montgomery Wards see
KTV 541 573 627 657 658 662	Wards
682	Motorola 521 572 651 739 835
LG 553 627 653 654 693 718	MTC 505 506 516 523 573 627
766 773 804	653 654 680
Lloyd's 627 756	Multitech 657 682
Lloytron 658	Multivision 810
Loewe 566 656 761 897	NAD 595 627 631 635 637 654
Logik 675	744 771 802
Luce 699	National 509
Luxman 523 627 654	NEC 505 506 517 523 573 608
LXI 503 566 590 595 627 631	627 651 653 654 731 732 904
635 645 650 654 656 683 744	Net-TV 507 586 609 801
761 771 802 830 897	Nikkai 613
M. Wards see Wards	Nikko 627 654 727 778
Magnasonic 573 664	Norcent 579
Magnavox 506 520 525 536	Normandic 717
550 560 566 567 568 573 625	Noshi 681
627 646 654 656 723 724 756	Novabeam 561 627
761 762 777 818 827 828 829	NTC 727 778
838 839 887 888 891 892 893	Nyon 627
894 897	Olevia 564 578 580 910
Magnin 661	Onwa 541 657 662 682
Majestic 675	Optimus 590 637 689
Marantz 506 566 573 604 627	Optonica 521 572 607 739 835
654 656 761 897	Orion 694 726 834 899
Matsushita 689	Osaki 687
Maxent 507 581	Panasonic 508 509 512 566
Media Center 721	577 619 634 644 647 651 656
Megapower 804	662 685 689 700 729 734 761
Megatron 627 654	765 780 784 811 819 820 821
MEI 698	822 823 860 861 862 867 868
Memorex 529 590 627 648	869 870 871 872 873 874 875
653 654 675 683 834	876 877 878 879 880 881 882
MGA 504 505 506 542 571 573	883 884 885 886 889 890 895
627 653 654 661 728	896 897 900
Midland 501 508 645 650 658	
711 730 813	

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TV Codes, continued

Panavision 734 811	Realistic 503 590 607 627 645
Penney 503 505 506 508 516	654 655 657 658 682 683 730
525 543 595 627 631 645 650	830
653 654 658 661 680 690 728	Rhapsody 701
730 744 771 802 830 857	Runco 501 627 711 813
Philco 505 506 525 532 536	Sampo 506 507 519 627 654
568 573 627 651 653 654 655	658 730 746 753 763
656 658 723 724 761	Samsung 505 506 516 523
Philips 525 527 548 550 563	566 573 601 627 653 654 655
566 621 625 627 651 655 656	658 680 707 717 730 738 755
658 690 723 724 747 761 770	761 794 833 858 897
782 824 825 826 827 828 839	Samsux 702
887 888 891 892 893 894 897	Samwon 620
Philips Magnavox 527 550	Sansei 697
761 782 826 827 828	Sansui 726 754 756 834 899
Pilot 627 658	908
Pioneer 547 576 627 637 654	Sanyo 590 611 627 661 683
PlasmSync 610	SBR 566 761 897
Polaroid 591 627 669 670 671	Sceptre 677
678 744 745 751 766 773 814	Schneider 566 761 897
Portland 505 573 627 653 654	Scimitsu 773
658 727 778	Scotch 627 654
Price Club 680	Scott 534 541 627 654 655
Prima 653 673 674 842 912	657 658 662 682
Princeton 562 804	Sears 503 523 534 542 558
Prism 508	590 595 627 631 635 645 650
Proscan 503 645 650 742 749	654 658 683 733 744 756 761
830	771 802 830 841 846
Proton 513 519 536 585 627	Seimitsu 627
654 655 658	Semivox 682
Protron 589	Semp 595 771
Proview 902	Sharp 521 572 585 605 607
Pulsar 501 627 711 813	627 628 629 654 655 658 663
Quasar 508 509 651 689 700	739 740 803 835 836 898
784 860 861 862 867 868 869	Sharper Image 703
870 871 872 873 874 875 876	Sheng Chia 572 739
877 878 879 880 881 882 883	Shogun 627
884 885 886 889 890 895 896	Signature 675
Radio Shack 503 541 590 607	Silver 573
627 645 650 654 655 657 658	Simpson 525
662 682 683 730 756 830	Solavox 613
RCA 503 505 522 627 630 636	
641 645 650 651 653 654 661	
742 749 776 779 805 830 831	
863 864 902	

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TV Codes, continued

Sony 500 640 652 756 758 781 783 795 796 797 798 806 807 837 844 845	Toshiba 516 526 590 595 617 622 631 635 666 680 683 688 744 750 754 755 768 771 785
Soundesign 525 534 536 541 627 654 657 662 682	793 800 802 847 848 849 850 851 852 854 855 865 866 908 909
Spectricon 520 620 627	Tosonic 698
Squareview 694 733 841 846	Totevision 658
SSS 505 541 573 627 657 662 682	Toyomenko 627
Starlite 657 682	Trical 706
Studio Experience 692	Trutech 584
Superscan 572 646 739 741 767 777	TVS 834
Supra 523 627	Universal 543 690 857
Supre-Macy 840	Universum 687
Supreme 652 795 797 798 807	V Inc. 562 575
Susumu 687	Vector Research 506 627
SVA 515 901 905	Victor 557
Sylvania 506 525 536 566 568 569 573 618 627 646 654 656 672 679 723 724 733 756 761 764 777 897	Video Concepts 570
Symphonic 632 657 662 679 682 694 733 756 841 846	Vidikron 761
Syntax 564	Vidtech 505 573 627 653 654
Syntax-Brilliant 558 564	Viewsonic 507 551 562 575 583 600 606 760 796
Tandy 521 572 739 835	Viking 840
Tatung 509 588 651	Viore 907
Technics 508 689	Vizio 511 535 562 575 593 598 773
Technol ACE 534	Wards 500 503 505 506 534 536 543 567 568 573 595 607 627 645 653 654 656 675 690 723 724 761 795 802 807 830 857
Techview 590 683	Waycon 595 744 771 802
Techwood 508 523 573 627 654	Westinghouse 528 562 574 575 795 797 798 807 809 832 856
Teco 704	White Westinghouse 528 816 832 834
Teknika 504 505 512 516 523 524 525 534 536 541 573 627 644 653 654 655 657 658 662 675 680 682 685 727 761 778	Yamaha 505 506 573 627 653 654
Telecaption 688	York 627
Telefunken 794	Zenith 501 553 555 615 627 639 675 693 711 748 752 756 766 773 775 778 813 834 853 899
Tera 513	Zonda 620 804
Thomas 627 756	
Thompson 709	
Thomson 705	
TMK 523 573 627 654	
TNCi 501 711 813	

VCR Codes

This table contains the manufacturer codes for programming the remote control to operate your VCR. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. 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	DIRECTV 649
Adventura 588 594	Dumont 549
Aiwa 501 588 594 676 678	Durabrand 533
Akai 513 518 568 682 772	Dynatech 588 594
Alienware 792	Electrohome 512 676 678
American High 554	Electrohome 512 676 678
Americast 917	Emerson 508 512 518 534 536
Apex 517	554 559 568 588 594 676 678
ASA 556 801	798 804
Asha 675	ESA 502
Audio Dynamics 592	Finlandia 549
Audiovox 676 678	Finlux 549 556 801
Bang & Olufsen 537 794	Fisher 549 581 789
Beaumarck 675	Fuji 554 772
Bell & Howell 581	Funai 588 594 804
Broksonic 511 515 516 525 559	Garrard 588 594
Calix 676 678	Gateway 792
Candle 534 592 594 675 676	General Electric 541 554 585
678	591 605 607 649 675
Candle/Citizen 675 676	Go Video 522 524
Canon 554	Goldstar 592 594 676 678
CineVision 529	Goodmans 585
Citizen 534 536 591 592 594	Gradiente 588 594
678	Granada 549
Colortyme 592	Grundig 556 801
Colt 535	Harley Davidson 588 594
Craig 591 676 678 789	Harman/Kardon 568 592
Curtis Mathes 554 585 592	Headquarter 581
594 605 607 649	Hewlett Packard/HP 792
Cybernex 675	Hi-Q 789
Cyberpower 792	Hitachi 514 539 540 594 595
Daewoo 534 536 559 588 796	682 776
Davidson 594	Howard Computers 792
DBX 592	Hush 792
Dell 792	iBuyPower 792
DiamondVision 532	Insignia 507
Dimensia 585 607 649	

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VCR Codes, continued

Instant Replay 554	Noblex 675
ITT 675	Northgate 792
JC Penney see Penney	Olympus 554
JCL 554	Optimus 676 678 786
Jensen 595 682 776	Optonica 585
JVC 503 504 523 526 527 545	Orion 550
561 562 581 592 594 682 795	Panasonic 554 614 628 770
KEC 676 678	777 780 781 782 783 784 786
Kenwood 562 581 592 594 682	787 788 799 809 810
Kodak 554 676 678	Penney 554 581 591 592 595
LG 507 676 678	675 676 678 776
Linksys 792	Pentax 595 776
Lloyd's 588 594	Pentex Research 592 594
Luxor 567	Philco 554
LXI 676 678	Philips 554 556 585 801 803
M. Wards see Wards	804
Magnasonic 536	Philips Magnavox 801
Magnavox 533 554 556 594	Pilot 676 678
797 798 801 803 804	Pioneer 562 776
Magnin 675 676 678	Polaroid 517 530
Marantz 554 556 581 585 592	Presidian 804
594 801	Proscan 585 605 607 649
Marta 676 678	Pulsar 533
Matsushita 554	Quarter 581
Media Center PC/Microsoft 792	Quartz 581
MEI 554	Quasar 554 770 771 786 806
Memorex 515 516 533 549	Radio Shack 512 554 581 588
550 554 581 585 588 594 676	594 676 678 789
678 786 789	Radix 676 678
MGA 512 567 568 675	Randex 676 678
MGN Technology 675	RCA 518 528 541 554 585 591
Microsoft 792	595 605 607 649 675 773 774
Midland 591	775 776
Mind 792	Realistic 534 549 554 581 585
Minolta 595 776	588 594 676 678 789
Mitsubishi 512 562 567 568	Ricavision 792
595 607 776	Ricoh 791
Montgomery Wards see	Runco 533
Wards	Salora 567
Motorola 554	Samsung 506 524 534 591
MTC 544 594	755 807
Multitech 588 591 594	Sanky 533
NEC 562 581 592 594 682	Sansui 515 516 544 550 562
Nikko 676 678	594 682
Niveus Media 792	

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VCR Codes, continued

Sanyo 549 581 675 789	Wards 512 534 554 585 588
SBR 556 801	591 594 595 676 678 776 789
Scott 534 559	White Westinghouse 588
Sears 549 554 581 594 595	XR-1000 554 588 594
676 678 776 789	Yamaha 581 592 594 682
Sharp 512 585 607 918	Zenith 500 507 533 594 772
Shintom 595 772	779 791
Shogun 675	ZT Group 792
Singer 554 791	
Sony 500 594 768 772 778	
790 791 792 919	
Stack 792	
Stack 9 792	
STS 554	
Superscan 531 798 804	
Sylvania 519 554 556 567 588	
594 756 798 801 804	
Symphonic 588 594 804	
Systemax 792	
Tagar Systems 792	
Tandy 581	
Tashiko 676 678	
Tatung 682	
Teac 588 594 682	
Technics 554	
Teknika 554 588 594 676 678	
Thomas 594	
TMK 675	
Toshiba 534 538 542 543 567	
769 776 783 792	
Totevision 591 676 678	
Touch 792	
UltimateTV 649	
Unitech 675	
Vector Research 534 592	
Victor 561 562	
Video Concepts 534 568 592	
Videomagic 676 678	
Videosonic 591	
Viewsonic 792	
Villain 594	
Voodoo 792	

DVD Player Codes

This table contains the manufacturer codes for programming the remote control to operate your DVD Player. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. 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	Curtis Mathes 684
Advent 572	CyberHome 833
Aiwa 694	Cytron 904
Akai 656 752 815	Daewoo 626 657 859
Alco 765	Denon 578 697 699 700 716
Allegro 683	737 892
Alpine 653	Desay 598
Amphion MediaWorks 586	DiamondVision 637 641
AMW 586	Disney 617
Anaba 687	Dual 871
Anam 688	Durabrand 826
Apex 654 655 744 757 835	DVD2000 699 716
839 851	Eclipse 574
Apple 642	Eltax 685
Archos 885	Emerson 570 617 658
Arrgo 833	Enterprise 824
Aspire 558	ESA 570 587
Astar 612	Fahrenheit 713
Audiologic 698	Fisher 659
Audiovox 580 630 765 826 837	Flex Vision 717
Axion 867	Fun TV 718
B&K 701	Funai 570 617 658 829
Bang & Olufsen 569 580	Gateway 610
Bel Canto Design 719	General Electric 702 703 720
Blaupunkt 835	749 816 835
Blue Parade 719	Go Video 610 692 693 822 826
BOSE 758 811	Goldstar 611 673 824
BOSS 576	GPX 704 826 882
Broksonic 656 752 815	Gradiente 699 716
California Audio Labs 699 716	Greenhill 835
Cambridge SoundWorks 870	Grundig 565 577
CAVS 708	Harman/Kardon 715
CineVision 626	Hitachi 606 660 668 705 706
Clarion 696	707 823 860
Classic 695 826 882	Hiteker 654 655 744
Coby 557 634	Honda 721
Criterion 712	
Curtis 685	

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DVD Player Codes, continued

Honyas 726	Microsoft 703 720 749 816
iLive 856	Mintek 710 835
iLo 837	Mitsubishi 767
Ingelen 876	Momitsu 748
Initial 835	NAD 673 824
Insignia 570 673 824 871	Nakamichi 596
Integra 551 779	Nesa 835
Irradio 608	Next Base 680
Jamo 728	Nexxtech 599
Jaton 738	Niro 750
JBL 715	Nissoho Iwai 718
Jeken 878	Norcent 634 711
Jensen 557	Onkyo 551 672
JMB 656 815	Oppo 566
JVC 553 603 604 620 621 622	Optiview 687
623 625 689 850 861 862 863	Oritron 564 723
872 898	Panasonic 624 627 638 662
Jwin 742	663 672 699 714 716 734 737
Karcher 864	813 840 841 855
Kawasaki 765	Philco 686
Kendo 848	Philips 565 572 577 617 672
Kenwood 579 699 700 716 737	764 766 873 874
KLH 765 835	Pioneer 665 719 812 877 879
Konka 753	880
Koss 564 723 745 873	Polaroid 586 617 635 636 640
Lasonic 593	647 651 677 851
Lenoxx 560 826	Polk Audio 565 577
Lexia 857	Portland 751
Lexicon 743	Presidian 617
LG 615 673 824 899	Prima 759
Lifetec 634	Princeton 760
Limit 857	Proceed 654 655 744
Liquid Video 564	Proscan 703 720 749 816
LiteOn 602 610	Provision 761
Loewe 746	Pye 674
LogicLab 857	Qwestar 723
Logix 852	RCA 616 666 690 703 719 720
Lumatron 673 824	749 765 816 835 842 901
Luxman 844	Regent 560
Luxor 848	Rio 683
Magnavox 565 570 577 601 617	Rotel 553 850 861
650 658 661 672 674 679 854	Rowa 555
Malata 747	Saba 762
Marantz 565 577	Sampo 724
Memorex 656 658 709 815	

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DVD Player Codes, continued

Samsung 571 606 643 644 652 667 668 691 699 716 740 741 805 820 821 844 845 849 866 869 875 881 895 896 900	Teac 732 765 Technics 699 716 733 Technosonic 886 Techwood 664 Terapin 887 Theta Digital 719 TiVo 888
Sansui 656 725 754 815 Sanyo 609 656 659 815 Sensory Science 610 Sharp 573 617 669 727 865 903 Sharper Image 763 Sherwood 870 Shinco 589 Shinsonic 731 Sigma Designs 760 SonicBlue 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 570 SVA 800 Sylvania 570 617 619 631 639 645 658 764 829 Symphonic 617 658	Toshiba 575 583 584 646 648 656 672 735 736 814 815 819 825 828 834 893 894 Tredex 889 Trutech 833 TView 687 Urban Concepts 672 US Logic 681 Venturer 765 Vizio 897 Vocopro 890 Westinghouse 629 Xbox 703 720 749 816 Xwave 891 Yamaha 565 577 699 716 737 739 853 Zenith 611 672 673 824

Tuner/Amplifier Codes

This table contains the manufacturer codes for programming the remote control to operate your tuner/amplifier. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. 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 Acoustic Research 703 853 Acurus 691 ADC 652 Adcom 644 673 Admiral 747 ADS 748 Aiwa 636 667 681 685 718 720 725 730 839	Akai 740 Alco 659 Alpine 749 Altec Lansing 738 AMC 855 Amphion Media Works 660 Amplifier Technologies 710 AMW 660
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Tuner/Amplifier Codes, continued

Anam 653	Digital Audio Control 688
Angstrom 692	Durabrand 698
Anthem 750	Dynalab 858
Apex 812	EAD 756
Aragon 691	Eclipse 665
Arcam 726	Elan 699
Atlantic Technology 712	Emerson 820
Audio Research 751	ESA 757
Audio Source 693	Fisher 850
Audiotronic 685	Fosgate 700
Audiovox 659 826	Garrard 851
B&K 752	Gateway 743
Bang & Olufsen 676	General Electric 638
Bel Canto Design 694	Glory Horse 728
Biamp 695	Go Video 742
Blaupunkt 854	Goldstar 814
BOSE 639 656 761	GPX 834
Boston Acoustics 713	Gradiente 682
Brix 744	Halfer 758
Brumester 647	Harman/Kardon 640 685 725
California Audio Labs 686	Hitachi 850
Cambridge SoundWorks 831	Honyas 770
Capetronic 652	iLive 835
Carver 685 725	Initial 735
Cary Audio Design 689	Inkel 714
Casio 717	Insignia 825
CCE 802	Integra 650
Chase Technologies 687	Jamo 837
Cinema Sound 696	JBL 642
Clarinette 717	JC Penney see Penney
Clarion 753	Jensen 775
Classe 697	JVC 637 663 786 827 848
Classic 819	Kenwood 658 662 668 774
Coby 811	795 828 829 830 840
Counterpoint 754	KLH 659
Craig 856	Knoll Systems 701
Creative 723	Koss 739
Criterion 734	Lasonic 746
Crown 857	Left Coast 640
Curtis 815	Lenox 736
Curtis Mathes 772	Lexicon 724
Daewoo 727	LG 836
Dell 729	Linn 685 725
Delphi 755	Liquid Video 739
Denon 669 670 680 759 760	
762 809	

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Tuner/Amplifier Codes, continued

Lloyds 717	772 842 845 852 853
Logitech 702	RCA & Dimensia 703 853
Luxman 704	Realistic 717
LXI 716	Regent 736
M. Wards see Wards	Rio 661
Magnadyne 776	Rotel 674
Magnavox 652 654 685 725	Saba 741
Marantz 640 645 685 725 764	Samsung 807
Mark Levinson 705	Sansui 685 725
McIntosh 706	Sanyo 824 850
MCS 719	Schneider 787
Memorex 777	Scientific Atlanta 721
Midland 707	Scott 715
Mitsubishi 859	Sharp 832
Modulaire 717	Sharper Image 728
Motorola 737	Sherwood 833
NAD 648	Shinonic 789
Nakamichi 649	Shure 641
NEC 641	Sonic Blue 661
Nexxtech 711	Sony 683 730 765 766 769 771
Nikko 708	773 778 784 793 794 803 846
Niro 779	Soundesign 638
Norcent 731	Soundmatters 763
Nova 780	Soundstream 709
Omnifi 745	Stereophonics 635 845
Onkyo 671 785 788 790 791 838	STS 792
Optimus 635 652 653 772 845	Sunfire 658 840
Oritron 739	Symphonic 747
Panasonic 643 677 678 783	TAG McLaren 796
797 799 808 810 817 818 821	Teac 653 659
Parasound 647	Technics 643 672 768 804
Penney 717	805 808
Philco 781	Techwood 798
Philips 640 685 725	Thomson 800
Philips Magnavox 860	Thorens 685
Pioneer 635 652 664 666 767	Toshiba 822
772 806 813 844 845	Vector Research 801
Polaroid 679	Venturer 659
Polk Audio 640 645 685 764	Victor 637 827
Proscan 703 853	Wards 635 638 685 725
Proton 654	Yamaha 646 650 651 655 657
Pyle 782	663 684 732 733 786 823 841
Quasar 799	847 848 849
Radio Shack 717 728	Yorx 717
RCA 635 652 653 659 675 703	Zenith 814

DVR Codes

This table contains the manufacturer codes for programming the remote control to operate your DVR. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. 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	ReplayTV 907 912
Alienware 792	Samsung 521
Americast 917	Scientific Atlanta 914
Bang & Olufsen 794	Sharp 573
BellSouth 917	Sonic Blue 907
CyberPower 792	Sony 510 792 905 908 909
Dell 792	Stack 9 792
Director 913	Supercable 915
DIRECTV 521 910 911 916	Systemax 792
Gateway 792	Tagar Systems 792
General Instrument 913	TiVo 510 520 548 905 906 908
GOI 722	909 910 911
Hewlett Packard 792	Toshiba 792
HNS 521	Touch 792
Howard Computers 792	UltimateTV 916
HP 792	Viewsonic 792
HTS 722	Voodoo 792
Hughes Network Systems	Zenith 917
521 910	ZT Group 792
Humax 910	
Hush 792	
iBUYPower 792	
Jerrold 913	
JVC 722	
Linksys 792	
Media Center PC 792	
Microsoft 792	
Mind 792	
Motorola 913	
Niveus Media 792	
Northgate 792	
Pace 914	
Panasonic 907	
Philips 521 548 906 910	
Pioneer 914	
Proscan 916	
RCA 521 911 916	

Combo Codes

The following tables contain the manufacturer codes for programming the remote control to operate your TV/VCR. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. 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.

	TV Code	VCR Code
Aiwa	667	501
Bang & Olufsen	665	537
Colt	660	535
GE	661	675
Magnin	661	675
MGA	661	675
Magnavox	887	797
	888	797
Panasonic	765	799
Penney	661	675
Philips	887	801
Quasar	860	770
	860	771
	860	806
	868	770
	870	770
RCA	503	649
	661	675
	749	775
	830	649
Samsung	755	807
Sanyo	661	675
Sylvania	756	519

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.

	TV Code	DVD Code
Apex	757	757
Audiovox	624	630
Axion	636	867
Broksonic	750	752
Cytron	904	904
Magnavox	838	679
	839	650
Panasonic	811	734
Polaroid	671	647
	678	677
	745	635
RCA	830	749
	830	816
	830	703
Sansui	754	754
Sharp	605	573
	898	573
Sylvania	672	645
	764	764
	777	639
	733	764
Toshiba	622	815
	750	815
	800	646
	865	814
	866	815
	908	815

Combo Codes, continued

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.

	TV Code	DVD Code	Tuner Code
Panasonic	811	734	678

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.

	DVD Code	VCR Code
GoVideo	693	522
	822	524
Panasonic	734	780
	734	777
RCA	690	528
Sansui	815	515
Sony	817	778

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.

	TV Code	DVD Code	VCR Code
DiamondVision	659	532	641

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 3.
- 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 20-30 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 3).

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 17).

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 TV.

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 29 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 3.

Check the UHF/IR switch setting as described on pages 1-2.

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 tilt 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 47.
3. Visit www.dishnetwork.com/chat for 24/7 support.
4. Call the Customer Service Center at **1-800-894-9131**.

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



Channel or Input for
Satellite Programming

If you enter a "1" as the last number of your code, your remote is in Limited Mode (see page 16 for more details).

TV

TV Code

(Optional)

DVD

VCR/DVD Player Code

(Optional)

AUX

Auxiliary Equipment Code

(Optional)

To read out your remote codes, see page 15 for instructions.

For all your customer needs,
go to **www.dishnetwork.com/chat**
or call the Customer Service center
at **1-800-894-9131**



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