

Remote Control User Guide



dish
NETWORK®

Notes:

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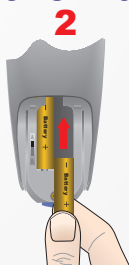
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Your Remote Control Codes	Inside Back Cover

1

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.

2

Making the Remote Work With Your Receiver



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 remote address probably changes on the screen.



4
Use the remote to select Done from System Info to confirm that your remote operates your receiver. If this is not working, go back to step 1.

Program the Remote to Control Your TV

1



Turn your TV on.

2



Press & hold the TV Mode button until all Mode buttons light up.

3

POWER



Press POWER.

4



Press the UP ARROW repeatedly (about 1 press per second) until your TV turns off.

5



Press POUND.

6



Press the POWER button to turn the TV on and try other buttons to make sure the code works. If you want to try another code, start over from step 1.

Placing Your Remote in Limited Mode

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

1



Press & hold the TV Mode button until all Mode buttons light up.

2



Press the PAGE UP button.

3



Press POUND.

To take the remote out of Limited Mode, use the PAGE DOWN button instead of the PAGE UP button in step 2.

If You Lose Your Picture (How to Use the Recover Button)

Use the Recover button to get back to watching satellite programming if you accidentally change channels or inputs on your TV.

1



Press and hold RECOVER until all mode buttons light up.

2



(Your screen may be different)

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

3



Press RECOVER again & 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 do.

4



Press SELECT to resume watching TV.

Remote Operation

SAT Mode

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.

Volume & Mute Buttons

Control TV volume

Programming required (see page S-2)

Receiver Power & TV Power

Top button turns the receiver on/off

Bottom button turns the TV on/off

Programming required (see page S-2)

Press this button for SAT Mode

Page Buttons

Page up/down in menus

Program Guide

Display current and future satellite program listings

Arrows/Select Buttons

Channel up/down, navigate through menus/guides and select a desired option

Themes

Search for programs using Themes

Recall

Go back to last channel viewed

Info

Display program info

Recover

Recovers satellite programming if your TV input or channel has changed

Picture-In-Picture (PIP) Buttons

Watch two separate programs at once (in Single Mode if available on your receiver)

Format

Format the picture to the desired width to match the program you are viewing (this feature varies by receiver)



Browse

See what is on other channels while watching TV

View Satellite Programming

Exit out of any menu/guide and go back to viewing live TV

DISH

Explore interactive TV features

Number Buttons

Enter a channel number or select menu items

Search

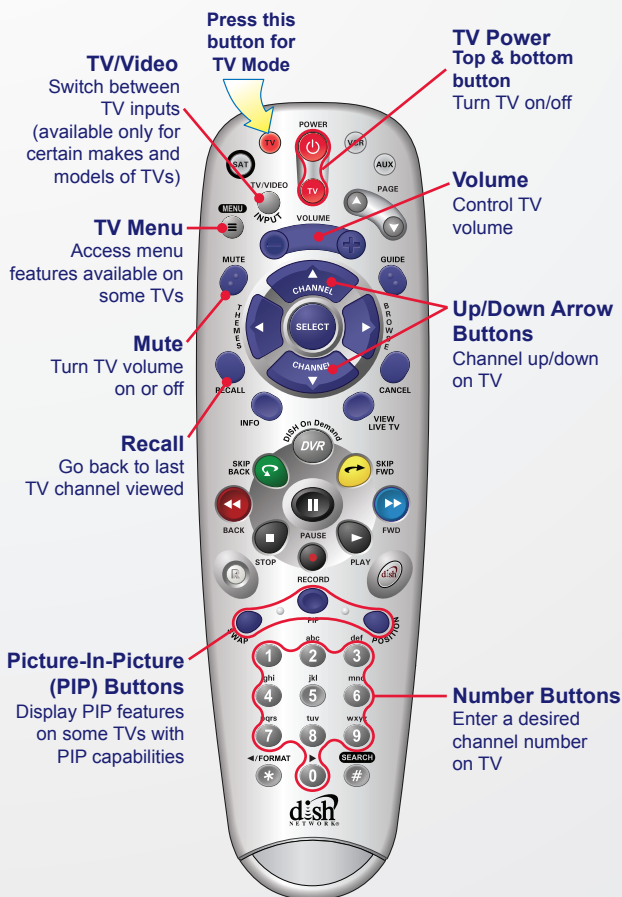
Search for a program

Remote Operation

TV Mode

To use the features described in this section, make sure you are in TV mode by pressing the TV Mode button. Remote programming is required.

See page S-2 for instructions.



Note: Remote operation is different on DISH Network TVs. See your DISH Network TV User's Guide for proper operation.

Remote Operation

VCR Mode

To use the features described in this section, make sure you are in VCR mode by pressing the VCR Mode button. You can use this mode to operate your DVD player instead of a VCR. Remote programming is required. See page 2 for instructions.



Press this button for VCR Mode

VCR/DVD Power & TV Power

Top button turns VCR/DVD player on/off

Bottom button turns the TV on/off

TV/Video

Switch VCR between its TV & VCR mode

Up/Down Arrow Buttons

Channel up/down on VCR

Back

Rewind a videotape or reverse a DVD

Pause

Pause a videotape or DVD

Stop

Stop playing or recording a videotape, or stop playing a DVD

FWD

Forward a videotape or DVD

Play

Play a videotape or DVD

Record

Record on a videotape

Number Buttons

Enter a desired channel number on VCR



Notes:

REMOTE CONTROL OVERVIEW

Use this full-function remote to control your DISH Network receiver. Also, you can program the remote to control most of the popular brands of audio/video equipment like a TV, VCR, DVD player, or a second DISH Network satellite receiver. See *Programming for Other Equipment* on page 2.

Note: This remote control may have features not used by your receiver.

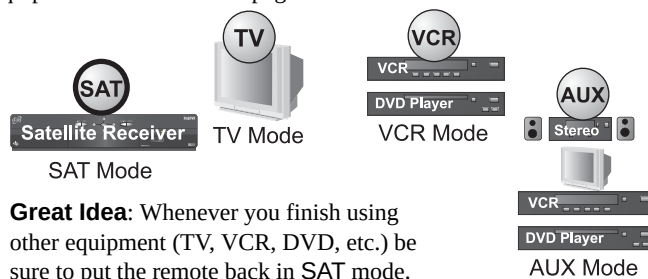
USING THE GUIDE

This guide makes it easy to set up and use your remote control. By now you've noticed that the pages at the beginning of this *User Guide* contain information on quick set up and remote operation.

The rest of the guide contains in-depth information to help you get the most from your remote control, including controlling other equipment like TVs, VCRs, and DVD players.

REMOTE CONTROL MODES

Use the remote control's mode buttons to set the remote to the correct mode for the equipment. Be sure to program the remote to control other equipment as described on page 2.



To change the mode, press the button for the equipment you want to control. The mode button lights for two seconds to show you've set the remote to that mode.

If you program the remote to control other equipment, refer to the following pages located at the beginning of this guide for remote control operation instructions:

- TVs, *Remote Operation TV Mode*, page S-5.
- VCRs and DVD players, *Remote Operation VCR Mode*, page S-6.
- DISH Network satellite receivers, *Remote Operation SAT Mode*, page S-4.
- Stereo equipment use only these buttons: SELECT (change inputs), MUTE, VOLUME, and POWER.

HOW THE REMOTE COMMUNICATES

This remote uses IR signals to control the receiver and other equipment.

IR signals travel only short distances (up to 40 feet), and cannot go through walls or other solid objects. Point the remote control right at the equipment you want to control, with no objects to block the signal path.

PROGRAMMING FOR OTHER EQUIPMENT

Page S-2, *Program the Remote to Control Your TV*, shows you how to program the remote to control a TV. This section uses a different method to program the remote to control a TV or other equipment (such as a VCR, DVD player, tuner, amplifier, or a second TV). You can program the remote by either following the instructions in *Programming Using Equipment Code Tables* on page 4, or the *Scanning for Equipment Codes* procedure described on page 5.

COMBINATION EQUIPMENT (FOR EXAMPLE, TV/VCR)

When programming the remote to control combination equipment, such as a TV/VCR or a TV/DVD, program the remote control in one mode, and then repeat the procedure in the other mode. Use the appropriate equipment codes provided later in this guide (see page 12). For example, to program the remote to control a Magnavox TV/VCR using code 887, follow the instructions to program the remote to control the TV using code 887, and then repeat the instructions for the VCR using code 797. Put the remote in TV mode to use the TV and VCR mode to use the VCR.

LIMITED MODE

You can program your remote control in Limited Mode to keep from accidentally changing the channel on your TV or VCR. When Limited Mode is enabled, you cannot select TV mode. If you press the TV button while TV mode is programmed in Limited Mode, the TV button flashes and the SAT button lights, telling you cannot switch to TV mode. The remote then moves back to SAT mode.

When you use the remote to control your TV in Limited Mode, you are only be able to use the POWER, MUTE, and VOLUME buttons to control your TV. Also, when you use the remote to control your VCR in Limited Mode, you are only be able to use the POWER and VCR function buttons. The section *Programming Using the Equipment Code Tables* (page 4) has a step that tells the remote control to go into Limited Mode. Also, a quick way to put the remote in Limited Mode is on page S-3, *Placing Your Remote in Limited Mode*.

Note: Limited Mode cannot be used with audio amplifiers.

FIXED CHANNEL MODE

You can program your remote control in Fixed Channel Mode to automatically set the TV and/or VCR to a given channel when you press either RECOVER or the SAT button.

SETTING (OR CHANGING) FIXED CHANNEL MODE FOR TV AND/OR VCR

- 1 Press and hold the TV or VCR mode button until all four mode lights illuminate.
- 2 Press the STAR (*) key. Enter a channel, using two or three digits between 02 and 125. For example, to set channel 25, enter *25.
- 3 Press the POUND (#) key. The TV or VCR mode button flashes three times.

REMOVING FIXED CHANNEL MODE FOR TV AND/OR VCR

- 1 Press and hold the TV or VCR mode button until all four mode lights illuminate.
- 2 Press the STAR (*) key followed by two zeros (*00).
- 3 Press the POUND (#) key. The TV or VCR mode button flashes three times.

PROGRAMMING USING EQUIPMENT CODE TABLES

You can set up the remote to control other equipment using the equipment codes listed on page 12 and the modes as shown on page 1.

Instructions	Additional Information
1 Turn the equipment on.	Use the equipment's front panel buttons or its remote control.
2 Find the brand name of the equipment in the tables starting on page 12.	If the brand isn't listed, see <i>Scanning for Equipment Codes</i> on page 5.
3 Press and hold the mode button until all the other mode buttons light up, and then let go of the button. The mode button flashes.	For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, TV flashes.
4 <i>For AUX mode only.</i> Press 0 for a second TV, or 1 for a second VCR, or 2 for a tuner or amplifier.	This step is for programming the kind of equipment that should be programmed in AUX mode. If you're not programming in AUX mode, skip to step 5.
5 Enter one of the three-digit equipment codes from the table using the number buttons.	The three-digit equipment code should be for the brand name of your equipment that you found in step 2.
6 If you want to program Limited Mode, press 1. If not, skip to step 7.	See <i>Limited Mode</i> on page 3 for more information.
7 Press POUND (#).	If you entered the code correctly, the mode button flashes three times.
8 Press POWER to turn off the equipment. If the equipment does not turn off, go to step 10.	If the code works, the equipment turns off.

Instructions	Additional Information
9 Turn the equipment back on and try some other buttons to make sure they work. If the code works for other buttons, stop here. Note: If you have programmed your remote in Limited Mode, only the MUTE and VOLUME buttons work.	For example, sometimes POWER works when other buttons don't.
10 If the code doesn't work, repeat steps 3 through 9 with another equipment code from the tables.	Try every code listed for your brand until one works for your equipment.
11 If you can't find a code that works, try <i>Scanning for Equipment Codes</i> that follows.	

SCANNING FOR EQUIPMENT CODES

Instructions	Additional Information
1 Turn the equipment on.	Use the equipment's front panel buttons or its remote control.
2 Press and hold the mode button until all the other mode buttons light up, and then let go of the button. The mode button flashes.	For example, hold TV for a TV until all of the other mode buttons light. When you let go, TV flashes.
3 <i>For AUX mode only.</i> Press 0 for a second TV, or 1 for a second VCR, or 2 for a tuner, or amplifier. Then press the STAR (*) button.	This step is for programming which kind of equipment that should be programmed in AUX mode. If you're not programming in AUX mode, skip to step 4.

Instructions	Additional Information
4 Press POWER.	This puts your remote in the scan mode.
5 Press the UP or DOWN ARROW repeatedly until the equipment turns off.	As you press the UP or DOWN ARROW, the remote tries each code in the memory to see if it can turn off your equipment. When the equipment turns off, you have found a code that might work. Note: The mode button for the equipment flashes rapidly eight times when you've scanned all the codes for that equipment.
6 Press POUND (#).	The mode button flashes three times if you have entered the code correctly. This stores the code you found.
7 Turn the equipment back on and try some other buttons to make sure they work.	Press POWER to turn the equipment back on. Try some other buttons to make sure they work. Sometimes POWER works when other buttons don't.
8 If necessary, repeat this procedure until you've tried all the codes.	You may need to repeat the scan to find the best code for your equipment.
9 Once you find a code that works, consider using Limited Mode.	See page S-3, <i>Placing Your Remote in Limited Mode</i> for putting your remote in Limited Mode.

SWITCHING BETWEEN TV AND AMPLIFIER VOLUME CONTROL

When you set up the remote to control a TV, the MUTE and VOLUME buttons control the TV volume, even if your remote control is in SAT mode. However, if you want to use the AUX mode to control a tuner or amplifier that has a volume setting, you can set up the remote to control the tuner or amplifier's volume instead of the TV volume while your remote control is in SAT mode. Follow the instructions in the left column to switch to controlling volume in AUX mode. To change back to controlling the TV volume in SAT mode, follow the instructions in the right column.

Control Amplifier Volume	Control TV Volume
1 Press and hold the AUX mode button for three seconds, and then let go of it. The AUX mode button blinks. 2 Press the POUND (#) button. 3 Press the plus (+) side of the VOLUME button. 4 Press the 0 number button. 5 Press the POUND (#) button. The AUX mode button flashes three times. MAKE SURE THE REMOTE CONTROLS THE AMPLIFIER'S VOLUME: 6 Press the SAT mode button. 7 Press the plus (+) and minus (-) sides of the VOLUME button. 8 The equipment's volume changes and the AUX mode button lights instead of the TV mode button.	1 Press and hold the TV mode button for three seconds, and then let go of it. The TV mode button blinks. 2 Press the POUND (#) button. 3 Press the plus (+) side of the VOLUME button. 4 Press the 0 number button. 5 Press the POUND (#) button. The TV mode button flashes three times. MAKE SURE THE REMOTE CONTROLS THE TV'S VOLUME: 6 Press the SAT mode button. 7 Press the plus (+) and minus (-) sides of the VOLUME button. 8 The TV's volume changes and the TV mode button lights instead of the AUX mode button.

PROGRAMMING THE REMOTE TO CONTROL A SECOND RECEIVER IN AUX MODE

If you have another DISH Network satellite receiver installed, you can use this remote in AUX mode to control it along with your new receiver. When you program the remote to control the other receiver, the remote sends out IR signals to the receiver. You can program the remote to control any other DISH Network satellite receiver, except for following:

- TV2 on Duo 322 (also known as DISH 322), DuoDVR™ 522, DuoDVR™ 625, DuoDVR™ ViP® 222, and DuoDVR™ ViP® 622 (also known as DISH Player-DVR models 522, 625, and ViP 222, & ViP 622 DVR)
- DishPlayer 7100/7200

- 1 Turn on the other receiver and display the System Info screen (see the receiver's *User Guide* for information on how to display this screen).

Write down the address shown: _____

- 2 Press and hold the AUX button until all the other mode buttons light up, and then let go of the button. The AUX button flashes.
- 3 Press the 3 button.
- 4 Use the NUMBER PAD to enter the address you wrote in step 1.
- 5 Press POUND (#). The AUX button blinks three times.
- 6 Press RECORD to make sure the address and the remote matches the address on the receiver.

READING OUT THE REMOTE CONTROL CODES

These instructions explain how to check the codes you put in the remote control when you set it up. Be sure to write them in the spaces provided on the inside of the back cover.

Instructions	Additional Information
1 Press and hold the mode button for the equipment you want the remote to control. When all the other mode buttons light up, let go of the mode button—that mode button should now be flashing.	For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, the TV mode light flashes.
2 Press the POUND (#) button <i>twice</i> . The mode button flashes the number for each digit of the equipment code, with a pause between the groups of flashes. A quick flash is for zero. For AUX mode, the first group of flashes tells you what type of device the AUX mode controls. A quick flash (zero) before the three-digit code is for a TV; one regular flash is for a VCR or DVD player; and two flashes is for a tuner or amplifier. For a satellite receiver programmed in AUX mode, the group of flashes tells you the address number.	For example, if the code is 570, the mode button flashes five times, pauses, flashes seven times, pauses, and quick flashes for zero. For example, if the TV code is 570, the AUX mode button flashes once quickly, pauses, flashes five times, pauses, flashes seven times, pauses, and quick flashes for zero. For example, if the AUX mode button is set to control a satellite receiver with address 5, the AUX mode button flashes five times.

DISCRETE CODES FOR LEARNING REMOTES

Remote control discrete On and Off IR 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 satellite receiver is reliably in one state or the other. To use discrete power commands, complete the following:

- 1 Program the DISH Network remote to desired remote address (see *Changing the Remote and Receiver Address* below).
- 2 Hold the SAT mode button until all mode buttons light, then release.
- 3 Press POWER (not TV POWER).
- 4 Press VOLUME UP for discrete power on or VOLUME DOWN for discrete power off.
- 5 Press any other button when done to end this procedure.

CHANGING THE REMOTE AND RECEIVER ADDRESS

One quick way to avoid remote conflicts is by changing the address on your remote and receiver. If you notice that your receiver is changing channels or opening menus but you're not using the remote control, a quick change of address should fix the problem.

- 1 Press SYSTEM INFO on the receiver's front panel. The System Info screen displays and shows the **Remote Address**.

Write down the address shown: _____

Note: If you aren't sure how to access the System Info screen or if there isn't a SYSTEM INFO button on the front panel of your receiver, check your receiver's *User Guide*.

- 2 Press and hold SAT on your remote control for about three seconds, until all of the mode buttons light up, and then let go of SAT.
- 3 Use the NUMBER PAD to enter any number between 1 and 16, but not the one you wrote in step 1.
- 4 Press the POUND (#) on your remote (the SAT button flashes three times). Write down the number you entered in the space provided on the inside back cover.

- 5 Press RECORD. Make sure the **Remote Address** you see on the System Info screen is the same as the one you entered in step 3. If it isn't, the remote cannot control the receiver. Press RECORD a second time.
- 6 Press SELECT to close the System Info screen.

EQUIPMENT CODES

These tables contain the manufacturer codes for programming the remote to control your TV, a VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. 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 CODES

Programming in AUX mode: In most cases use these codes to program in TV mode; however, if programming in AUX mode, press 0 before entering the TV code.

Abex 730	Dell 772 773 774
Action 662	Dimensia 645 650
Admiral 521 605 675	Dixi 566 620
Aiko 727	Dumont 501 627 652
Akai 570 573 906 907 908	Echostar 722
Alleron 682	Electrohome 526 573 651 652 654
A-Mark 620	656 709 728
Amtron 657	Emerson 526 534 536 541 573 590
Anam National 509 541 620 651 657	627 636 642 648 652 654 655 657
698	658 662 682 683 692 696 699 720
AOC 505 506 519 520 573 620 627	816
652 653 654	Envision 506 573 652 654
Apex 743 744 745 757 814 815	Fisher 542 590 683
Archer 620	Fortress 573
Audiovox 620 657 662	Fujitsu 534 682 694
Baycraft 536	Funai 534 541 657 662 682 694
Belcor 652	Futuretech 541 657 694
Bell & Howell 590 675 683	GE 508 509 543 544 630 645 646 650
Bradford 657	651 652 654 676 690 691 698 701
Brockwood 627 652	715 716 725 728 742 779 809 859
Broksonic 562 748 752	General Electric 627
Candle 506 523 525 536 627 652 654	Gibraltar 501 652
Candle/Citizen 573	Goldstar 505 523 526 545 546 566
Capehart 519 627	573 652 653 654 655 656 658 693
Circuit City 627	730
Citizen 506 516 523 524 525 526 590	Granada 627
652 654 657 658 680 727	Grand 627
Colortyme 573 627 652 654	Grunpy 657 682
Concerto 523 652 654	Hallmark 627 652 654
Contec Cony 662	Harmon Kardon 561
Contec/Cony 541 655 657 726	Harvard 657
Craig 536 541 657 662 694	Hinari 534
Crown 526 536 657	Hisense 759
Curtis Mathes 506 516 526 573 590	Hitachi 523 526 548 549 553 554 555
641 645 650 652 654 658 680 683	585 597 626 636 638 643 648 652
703 708	654 655 702 718 726 786 788 789
CXC 541 657 662	790 791 792 801 802
Cytron 903 904	HP 911 912
Daewoo 505 524 526 529 530 531	IMA 657
573 630 652 653 654 658 684 698	Infinity 566
719 727 816	JBL 566
Daytron 526 627 652 654 658	

TV CODES (CONTINUED)

JC Penney 505 506 516 525 526 543
 546 631 645 646 650 652 653 654
 658 676 680 690 691 701 725 726
 728 730
Jensen 556 573 652 654
JVC 508 557 559 642 649 655 676
 726 735 736 737 812 817
Kawasho 548 561 573 652 654
Kenwood 506 573 652 654 656
Kloss 561 610
Kloss Novabeam 657 698 723 724
KTV 526 541 573 657 658 662 696
LG 653 766
Lloyds 627
Lloytron 526
Loewe 566
Logik 675
Luxman 523 652 654
LXI 563 566 590 595 617 631 635 645
 646 650 654 683 691 701 725
M. Wards 500 505 506 534 543 567
 568
Magnasonic 573
Magnavox 506 520 525 536 566 567
 568 573 610 652 654 656 723 724
 729 762 818 887 888
Majestic 675
Marantz 506 566 573 652 654
Megatron 627 654
Memorex 590 627 653 654 675 683
 720
MGA 504 505 506 542 571 573 627
 652 653 654 656 728
Midland 501 646 658 676 725 730
Mitsubishi 504 505 542 570 571 572
 573 597 623 627 652 653 654 656
 705 728 787 799 804
Mitsui 769
Montgomery Ward 675
Motorola 521 605 651
MTC 505 506 516 523 573 627 652
 653 654 680
Multitech 657
NAD 502 617 627 631 635 637 654
National 509
NEC 505 506 507 517 523 573 627
 651 652 653 654 731 732
Nikkai 612
Nikko 654 727
Normandic 717
Novabeam 561
NTC 727
Nyon 701
Olevia 910
Onwa 541 657
Optimus 637
Optonica 521 605 607

Orion 694
Osaki 612
Panasonic 508 509 512 566 644 651
 662 676 685 689 698 700 716 734
 761 765 780 784 811 819 820 821
 822 823 867 868 869 870 871 872
 873 874 875 876 877 878 879 880
 881 882 883 884 885 886 889 890
 900
Philco 505 506 525 536 568 573 610
 651 652 653 654 655 656 723 724
 729
Philips 525 566 651 652 655 656 690
 723 724 729 770 782 824 825 826
 827 828 891 892 893 894
Philips Magnavox 782 826 827 828
 829
Pilot 652 658
Pioneer 502 548 576 636 637 648
 652 654 708
Polaroid 766
Portland 505 526 573 652 653 654
 658 727
Price Club 680
Prism 676
Proscan 645 646 650 691 725 742
 857
Proton 513 519 526 536 585 627 652
 654 655
Pro View 902
Pulsar 501 652
Quasar 508 509 651 676 698 700 860
 861 862 895 896
Radio Shack 526 541 590 607 612
 645 662 683 698
Radio Shack/Realistic 590 607 650
 652 654 655 657 658 683 730
RCA 503 505 548 630 633 634 636
 641 645 646 648 650 651 652 653
 654 656 691 698 701 708 715 716
 725 742 749 763 776 805 830 831
 832 863 864
Realistic 590 645 683
Runco 501
Sampo 506 519 652 654 658 698 730
 746
Samsung 505 506 516 523 526 566
 573 612 627 647 652 653 654 655
 656 658 680 704 717 730 738 755
 833 858 897
Samwon 620
Sansui 754 834
Sanyo 542 590 652 683
SBR 566
Schneider 566
Scotch 654

TV CODES (CONTINUED)

Scott 526 534 541 600 652 654 655 657 662 682 696 701	Technics 508 676
Sears 523 534 542 563 590 595 601 604 617 627 631 635 645 646 650 652 654 656 682 683 688 691 703 725 726	Techwood 523 573 652 654 676
Seimitsu 627	Teknika 504 505 512 516 523 524 525 526 534 536 541 573 644 652 653 654 655 657 658 662 675 680 682 685 726 727
Sharp 521 526 585 605 607 628 629 652 654 655 658 739 740 741 777 794 803 835 836 898 913	Tera 513
Shogun 652	Thomas 627
Signature 675	Thompson 709
Silver 573	TMK 523 573 627 652 654
Simpson 525	Toshiba 516 590 617 631 635 680 683 688 750 771 785 793 847 848 849 850 851 852 853 854 855 856 865 866 909
Solavox 612	Totevision 526 658
Sony 500 640 690 758 781 783 795 796 797 798 806 807 808 810 837 838 839 840 841 842 843 844 845	Toyomenko 627
Soundesign 525 536 541 627 652 654 657 682	Universal 543 690
Spectricon 520 620	Vector Research 506
Squareview 694	Victor 557
SSS 505 541 573 652 657	Video Concepts 570
Starlite 657	Vidtech 505 573 627 652 653 654
Supra 523	Viewsonic 760
SVA 901 905	Wards 536 573 607 645 650 652 653 654 656 675 682 690 715 723 724 729
Sylvania 506 525 536 566 568 569 573 600 610 652 654 656 723 724 729 733 756 764	White Westinghouse 816
Symphonic 632 657 662 692 694 846	Yamaha 505 506 573 652 653 654 656
Tandy 521 605	York 627
Tatung 509 651 698	Zenith 501 520 639 652 675 693 775 778 813 899
	Zonda 620

VCR CODES

Programming in AUX mode: In most cases use these codes to program in VCR mode; if programming in AUX mode, press 1 before entering the VCR code.

Adventura 588	Colortyme 592
Aiwa 588 622 623	Craig 591 675 676
Akai 513 515 516 517 518 568 682	Curtis Mathes 554 592 594 605 607 675 678
American High 678	Cybernex 675
Amstrad 588	Daewoo 534 547 559 588
ASA 556	DBX 592
Asha 675	Dimensia 607
Audio Dynamics 592	Dumont 549
Audiovox 676	Dynatech 588
Beaumarck 675	Electrohome 676
Bell & Howell 581	Electroponic 676
Broksonic 559	Emerson 505 508 509 511 512 518 534 559 568 588 590 618 676 678
Calix 676	Finlandia 549
Candle 534 594 675 676	Finlux 549 556 588
Canon 554 678	
Citizen 534 591 592 594 675 676	

VCR CODES (CONTINUED)

Fisher 549 581 584 588 610
Fuji 678
Funai 588
Garrard 588
GE 551 552 554 572 591 605 607 675 678
Go Video 557 558 620
Goldstar 592 594 676
Goodmans 585
Gradiente 588
Granada 549 581
Grundig 556
Harley Davidson 588
Harmon Kardon 568 592
Headquarter 581
Hitachi 536 538 539 540 588 595 597 682
Instant Replay 678
ITT 518
JC Penney 554 581 591 592 594 595 675 676 678
JCL 678
Jensen 595 682
JVC 561 562 581 592 594 682
Kenwood 562 581 592 594 682
Kodak 676 678
LG 676
Luxor 518
Lloyd's 588
LXI 676
M. Wards 512 554 585 590 591
Maganvox 797
Magnavox 533 554 556 678 797 798
Magnin 676
Marantz 554 556 581 585 592 594 678
Marta 676
Matsushita 678
MEI 554 678
Memorex 533 549 554 566 581 585 588 675 676 678
MGA 512 567 568
MGN Technology 675
Midland 579
Minolta 595
Mitsubishi 512 562 567 568 570 595
Motorola 678
MTC 544 588 675
Multitech 579 588 675
Mutitech 591
NEC 562 581 592 594 682
Nikko 676
Noblex 675
Olympus 678
Optimus 676
Optonica 585
Panasonic 554 614 628 633 678 777 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 799 808 809
Pentax 592 595
Pentax Research 594
Perdio 588
Philco 554 678
Philips 554 556 585 678 801 802 803 804
Pilot 676
Pioneer 562 574 575 576
Proscan 605 607
Pulsar 533
Quarter 581
Quartz 581
Quasar 554 678 770 771 772 805 806
Radio Shack 512 607 610 676
Radio Shack/Realistic 581 584 588 675 676 678
Radix 676
Randex 676
RCA 518 525 591 595 605 607 615 649 675 678 773 774 775
Realistic 534 549 554 581 584 585 588 675 676 678
Ricoh 502
Runco 533
Salora 567 581
Samsung 515 517 534 579 591 675 755 807
Sanky 533
Sansui 544 562 682
Sanyo 549 581 583 675
SBR 556
Scott 508 534 559 590
Sears 549 581 584 595 610 676 678
Sharp 512 585 595 607
Shintom 595
Shogun 675
Singer 678
Sony 500 501 502 768 778
STS 678
Sylvania 554 556 567 588 678 756
Symphonic 588 594
Tandy 581 588
Tashiko 676
Tatung 594 682
Teac 588 594 682
Technics 554 633 678
Teknika 554 588 676 678
TMK 675
Toshiba 534 535 567 584 590 769 776
Totevision 591 675 676

VCR CODES (CONTINUED)

Unitech 675	Wards 534 588 595 675 676 678
Vector Research 534 592	XR-1000 588 678
Victor 561 562	Yamaha 581 592 594 682
Video Concepts 534 568 592	Zenith 500 501 533 779
Videosonic 591 675	

DVD PLAYER CODES

Programming in AUX mode: In most cases use these codes to program in VCR mode; if programming in AUX mode, press 1 before entering the DVD Player code.

Aiwa 634 694	Norcent 711
Alpine 653	Oritron 723
Apex 654 655 744 757 835 839	Panasonic 639 663 699 714 715 716
Archos 885	734 765 813 840 841 855 856 868
BOSE 758 811	869 870 871 872 873 882
Broksonic 656 752	Philips 766 874
Clarion 696	Pioneer 665 719 812 876 877 878
Classic 695	879 880
CyberHome 833	Proscan 720
Cytron 904	Qwestar 723
Daewoo 657 859	RCA 666 690 749 816 842 854
Denon 697 699 700	Sampo 724
EchoStar 722	Samsung 652 667 668 691 705 740
Emerson 658	741 820 821 844 845 866 875 881
Fisher 659	Sansui 725 754
Funai 658	Sanyo 643
GE 702 703	Sharp 669 865
Go Video 692 693 822	Sony 617 645 670 671 729 730 731
GPX 704	817 818 830 831 832 836 837 838
Hitachi 660 668 705 706 707 740 823	843 847 848 849 851 852 853 857
860	858 864 883 884
JVC 689 711 850 861 862 863	Sylvania 658 764 829
Konka 637 638 753	Teac 732
Koss 745	Technics 733
Magnavox 661	Techwood 664
Memorex 709	Toshiba 616 646 672 735 736 814
Mintek 710	815 819 825 826 827 828 834 846
Mitsubishi 767 867	Yamaha 737 739
	Zenith 673 824

TUNER/AMPLIFIER CODES

Programming in AUX mode: Press 2 before entering the tuner/amplifier code.

Aiwa 636 641 656 687 718 720 725	Fisher 653
726	GE 711
BOSE 761 780	Goldstar 677 690
Carver 653	Harmon Kardon 640 672 751
Citizen 709	Hitachi 717
Denon 647 674 759 760 762 807 809	JBL 640
814 835	

TUNER/AMPLIFIER CODES (CONTINUED)

JVC 637 703 725 786 827	Quasar 652
Kenwood 676 691 726 728 774 795	RCA 635 638 704 727
828 829 830 831 832 840 842	Sharp 712 713 714 715
Magnavox 654 705	Sherwood 646 670
Marantz 651 764 845	Sony 639 645 687 728 729 730 765
Nakamichi 671	766 769 771 773 775 776 777 778
NEC 716	781 782 784 787 789 793 794 803
Onkyo 642 660 662 678 785 788 790	811 812 813
791 792 796 801 846	Soundmatters 763
Optimus 648 664	Teac 684
Panasonic 643 644 652 783 797 798	Technic 652
799 808 810 815 816 817 818 819	Technics 643 644 652 768 804 805
820 821 822 824 825 826 833 836	843
837 838 839	Toshiba 710
Pioneer 667 668 679 702 767 770	Victor 703
772 779 802 806 844	Yamaha 663 730 731 732 733 823
Proton 654 705	834 841

TV/VCR COMBO CODES

Programming for combination equipment: Program the remote control in TV mode using the TV code and then in VCR mode using the VCR code.

	TV Code	VCR Code
Magnavox	887	797
	888	798
Philips	891	801
	892	802
	893	803
	894	804
Quasar	860	770
	861	771
	862	772
	895	805
	896	806
RCA	863	773
	864	774
Samsung	755	755
	897	807
Sylvania	756	756

TV/DVD COMBO CODES

Programming for combination equipment: Program the remote control in TV mode using the TV code and then in VCR mode (or AUX - press 1 before entering the DVD code) using the DVD code.

	TV Code	DVD Code
Apex	757	757
Broksonic	752	752
Cytron	904	904
Panasonic	734	734
	765	765
RCA	749	749
Sansui	754	754
Sylvania	764	764
Toshiba	865	814
	866	815

TV/VCR/DVD COMBO CODES

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

	TV Code	VCR Code	DVD Code
Panasonic	900	810	882

TV/VCR/TUNER COMBO CODES

Programming for combination equipment: Program the remote control in TV mode using the TV code, then in VCR mode using the VCR code, and then tuner in AUX mode (press 2 before entering the tuner code) using the tuner code.

	TV Code	VCR Code	Tuner Code
Panasonic	867	796	797
	868	799	798
	869	808	799
	870	780	839
	871	781	838
	872	782	837

Table continues on next page

TV/VCR/TUNER COMBO CODES (CONTINUED)

	TV Code	VCR Code	Tuner Code
Panasonic	873	783	836
	874	784	833
	875	785	826
	876	786	825
	877	787	824
	878	788	822
	879	789	821
	880	790	820
	881	791	819
	882	792	818
	883	793	817
	884	794	816
	885	795	815
	889	809	808

VCR/DVD COMBO CODES

Programming for combination equipment: Program the remote control in VCR mode using the VCR code, and then DVD in AUX mode (press 1 before entering the DVD code) using the DVD code.

	VCR Code	DVD Code
Go Video	No Code	692
	No Code	693
	No Code	822
JVC	No Code	689
RCA	No Code	690
Samsung	No Code	667
	No Code	691
	No Code	820
	No Code	821
Sony	778	817
	No Code	818
	768	No Code
Toshiba	No Code	819
Zenith	779	No Code

TROUBLESHOOTING

What's Happening	What's Wrong	What You Can Do
While doing remote control procedure, the remote control stops working.	If you don't press a button for 20 seconds in a programming sequence, the remote shuts off its programming function.	Start over again.
When you press a button on the remote control, the equipment doesn't do what you expect.	- Maybe you didn't set the remote to the mode for the equipment you want to control. - Maybe you're not pointing the remote control right at the TV (or other equipment). - Maybe the remote control is missing batteries, maybe you put the batteries in the remote the wrong way, or maybe the batteries are weak or dead. - Maybe you didn't set up the remote to control the equipment.	- Press the correct mode button to set the remote to the mode for the equipment you want to control. - The remote control uses IR signals to control all equipment except for the receiver (when using UHF). IR signals travel only 40 feet or less, and can't go through walls or other solid objects. You must point the remote control right at the equipment, with no objects to block the signal path. - If the batteries are missing or dead, put fresh AAA-size batteries in. If the remote has fresh batteries, check whether you put them in the right way. If you didn't, take them out and put them in the right way. - Make sure you set up the remote to control all the equipment you want to use. See <i>Program the Remote to Control Your TV</i> on page S-2 and <i>Programming for Other Equipment</i> on page 2.

What's Happening	What's Wrong	What You Can Do
Your picture is snowy (or blue or black).	You have accidentally changed the channel on your TV.	Make sure your TV (and VCR, if connected) is tuned to the correct channel. Also try using the Recover button as described on page S-3, <i>If You Lose Your Picture (How to Use the Recover Button)</i>.
Your remote control isn't working	- The remote control is in the wrong mode. - You might be using the wrong remote control (TV1 or TV2). - Your batteries are worn out.	- Make sure the remote control is in the correct mode. For example, if you want to use the satellite receiver, put the remote control in SAT mode (see <i>Remote Control Modes</i> on page 1). - Make sure you are using the correct remote control (TV1 or TV2) for your locations (multi-room receivers only). - Change the batteries as described on page S-1 in <i>Insert the Batteries</i>.
When you press the remote control Mute or Volume button, nothing happens.	- Maybe you have not set up the remote control. - Maybe you're trying to control TV volume but you set up the remote to control a tuner or amplifier in AUX mode.	- See <i>Program the Remote to Control Your TV</i> on page S-2 at the beginning of this guide and <i>Programming for Other Equipment</i> on page 2. - Set up the remote to control either TV volume or tuner/amplifier volume, whichever you want. See page 7.
Your PIP (Picture-In-Picture) button isn't working.	Your receiver doesn't use PIP.	Upgrade to a receiver with this 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. DISH Network 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.

DISH NETWORK'S EXCHANGE PROGRAMS

DISH Network offers two options if you need to replace your remote control: the Advanced Exchange Program and the Post Receipt Exchange Program.

Advance Exchange Program

The Advanced Exchange Program allows you to have a replacement remote shipped immediately to you. Depending upon where you live, the remote should arrive within 3 to 5 business days. You will not have to return your defective remote to DISH Network using this program.

A shipping charge will be applied for shipping the replacement remote. This is a one-time fee based on DISH Network's competitive bulk shipping rates (additional charges may apply outside the continental U.S.). This fee will be charged to your billing account or valid credit card.

Post Receipt Exchange Program

The Post Receipt Exchange Program does require that you send DISH Network the defective remote control at your cost to determine if the equipment is covered under warranty. To provide faster service, upon receipt of your equipment you will be shipped a replacement. Your original equipment will not be available for return.

If your equipment is not covered under warranty and can be repaired, your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which DISH Network in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

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 20.
3. Call the Customer Service Center at 1-800-333-DISH (3474). Have the date of purchase and your customer account number ready.
 - a. If the representative finds you should return the remote control, you'll get a telephone number to call for a Return Authorization (RA) number. Before shipping any equipment to us, you must get a Return Authorization number.
 - b. You must package returned equipment the right way. Follow the instructions the representative gives you.
 - c. Write the RA number in large, clearly visible characters on the outside of the shipping box used to return the equipment. To avoid confusion and misunderstandings, we will return shipments without an RA number clearly visible on the outside of the box to you at your cost.

- d. We will:
- Check the remote control, including whether it is covered under the warranty.
 - Replace any remote we find is defective with a new or refurbished remote, if the defective remote is covered under the warranty. We will ship the replacement remote at our expense.
 - If a defective remote is not covered under the warranty, we will tell you. We may assess you a flat rate charge for a replacement remote, including shipping and insurance.

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

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

PUBLISHING INFORMATION

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The information in this Guide may change without notice. Revisions may be issued to tell you about such changes.

You should address comments or questions about this User Guide to: techpubs@echostar.com or

Technical Publications, EchoStar Technologies Corporation, 90 Inverness Circle East, Englewood, Colorado 80112.

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Reference Tables

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

--



TV Code

			1
--	--	--	---

(Optional)



VCR/DVD Player Code

			1
--	--	--	---

(Optional)



Auxiliary Equipment Code

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

(Optional)

If you enter a "1" as the last number of your code, your remote is in Limited Mode (see page 3 for more details).

To read out your remote codes, see page 9 for instructions.



**For all your customer needs,
call the Customer Service Center
at 1-800-333-DISH(3474)**

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