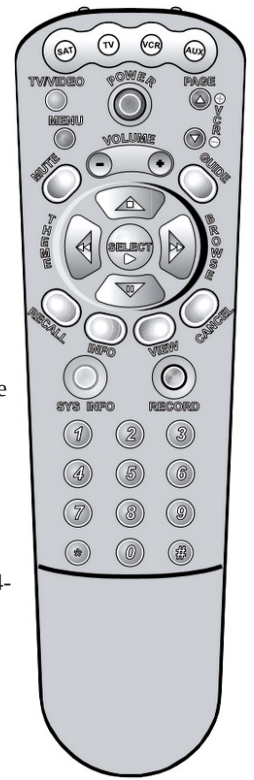


EchoStar 3100 Universal Remote

(IR Remote 103781)



PROGRAMMING THE REMOTE TO CONTROL OTHER DEVICES

1. Turn on the electronic device you want the remote to control. You must turn on the device using its buttons or the remote control that came with it.

2. Find the brand name of the device in the device code tables starting on page 3-12.

If the brand is not listed, go to the “Performing the Remote Control Device Code Scan” below.

3. Press and hold the **Mode** button for the device you want the remote to control for about 3 seconds. When all other mode lights come on, release the button. It will flash to indicate it is in the programming format. DVD codes should be programmed in VCR mode

4. Use the number pad buttons to enter the code for the device. If you are programming the **AUX** mode, you must enter a 4-digit code. The first digit is the code for the device, as follows:

- 0 - indicates a second TV
- 1 - indicates a second VCR or DVD player
- 2 - indicates an audio amplifier or cable box

For example, if you are programming the remote to control a second TV, the mode should be **AUX**. Enter 0 and then the three digit code for that device.

Limited Mode

You can program your remote control in limited mode to keep from accidentally changing the channel on your TV or VCR. When you use the remote to control your TV in limited mode, you will only be able to use the **Power, Mute, and Volume** buttons.

Also, when you use the remote to control your VCR in limited mode, you will only be able to use the **Power** and **VCR** function buttons.

The section *Set Up the Remote Control* has a step that tells the remote control to go into limited mode.

Note: Limited mode is not used with cable boxes or amplifiers.

If you want to program limited mode, press 1. If not, skip to step 5.

5. Press and release the (#) button. If the code is valid, the mode light will blink three times.

6. Test if the code works for the device by pressing the **Power** button. If the code works, the device should turn off.

7. Turn the device back on and try some other functions to make sure they work. Occasionally, the **Power** button may work when other buttons do not.

If the code works for other functions, stop here.

8. If the code you entered does not work, repeat the steps 3 - 5 using another code from the tables.

9. If you have tried all of the codes listed for the device without success, or if you can not find the device brand name in the tables, use the *Device Code Scan* procedure, explained on the following page.

PERFORMING THE REMOTE CONTROL DEVICE CODE SCAN

If a device brand is not listed in the code tables or if the listed codes do not work, you can scan through all the codes, testing each one. The remote may not control some brands or models of devices.

If you start this procedure and at any time do not press a button within 20 seconds, the remote will end the procedure automatically. This does not indicate that anything is wrong with the remote control. Simply start the procedure over again.

1. Press and hold the **Mode** button for the device you want the remote to control for about 3 seconds. When all other mode lights come on, release the button. It will flash to indicate it is in the programming format.

For **AUX** mode only, use the number pad buttons to enter the number as indicated below. Then press the star (*) button. This defines the device for which you are scanning as follows:

- 0 - indicates a second TV
- 1 - indicates a second VCR or DVD player
- 2 - indicates an audio amplifier or cable box

2. Press the **Power** button.

3. Press the **Up** or **Down** arrows to set the remote to the next code. The key backlight remains on through the search. The **Down** arrow button scans backward, the **Up** arrow scans forward. Keep pressing the arrow button, repeatedly, to continue scanning. When the correct code is reached, the device turns off. If the correct code is reached, press the pound (#) button to store the code in the remote. The appropriate mode light blinks three times.

4. Press the **Power** button to turn the device back on.

5. Try some other remote control buttons to make sure you have the correct code.

6. If the other buttons work, do the next procedure *Determining the Remote Control Device Codes*.

7. If the other buttons do not work, press the **Power** button to turn on the device and repeat steps 1 - 3. The scan resumes from the last code stored.

Note: The mode light flashes rapidly if the scan returns to the starting point and all codes have been tested for the device. If this happens, the remote may not control the particular device.

DETERMINING THE REMOTE CONTROL DEVICE CODES

You can find out what device code is currently set for each remote control mode:

1. Press and hold the **Mode** button for the device you want the remote to control for about 3 seconds. When all other mode lights come on, release the button. It will flash to indicate it is in the programming format.

2. Press the pound (#) button twice. The mode light flashes the number of times to indicate each digit of the current mode. There will be a pause between the flash sequences. A quick flash indicates zero. For example, for an **AUX** code of 0136, the mode light flashes once quickly (for zero), then once, three times, and six times. Remember that the **AUX** mode has a four digit code.

DEVICE CODES

Use these codes to set up the remote to control other devices. If a device is not listed or the codes do not work, the remote may not be able to control the device. **Note:** The end of the VCR table provides codes for DVD players. *Only* for a receiver that has its own volume control, use code 222 with the remote in **SAT**, **TV**, or **VCR** mode to set up the remote to control the receiver sound volume.

TV

Admiral	514, 521
Akai	532, 570, 573
Alba	613
A-Mark	620
Amstrad	533
Anam	509, 541, 620, 621, 691, 698
AOC	505, 506, 519, 520, 620, 695, 712
Archer	620
Audiovox	620
Baycraft	536
Bauer	611
Brockwood	695
Broksonic	562, 691
Candle	506, 522, 523, 525, 536, 691, 695, 712
Capehart	519, 695
Circuit City	695
Citizen	506, 516, 522, 523, 524, 525, 526, 691, 712
Colortyme	573, 695
Concerto	523
Contec	527, 528, 541, 591, 691
Craig	536, 541, 691, 694
Crown	526, 536
Curtis Mathes	506, 516, 526, 573, 703, 712
CXC	541, 691
Daewoo	505, 524, 526, 529, 530, 531, 532, 698, 712, 719
Daytron	526, 695
Dixi	532, 588, 620
Dumont	695
EchoStar	722
Electrohome	526, 573, 709, 713
Elta	532
Emerson	526, 527, 528, 533, 534, 535, 536, 537, 538, 539, 540, 541, 573, 622, 691, 692, 695, 696, 699, 720
Envision	506, 712
Etron	532
Fisher	542, 590
Formenti	611
Fortress	573, 605
Fujitsu	534, 694
Funai	534, 541, 691, 694
Futuretech	541, 691, 694
General Electric (GE)	503, 508, 509, 515, 540, 543, 544, 630, 695, 698, 701, 714, 715, 716
Genexxa	613
Goldstar	505, 523, 526, 545, 546, 573, 588, 693, 712
Granada	695, 711
Grand	695
Grandiente	711
Grundig	547
Hallmark	695
Harmon Kardon	561
Hinari	534
Hitachi	523, 526, 548, 549, 550, 551, 552, 553, 554, 555, 585, 597, 626, 702, 718
Infinity	566

JBL	566
JC Penney	503, 505, 506, 516, 526, 531, 543, 596, 701, 714
Jenson	556, 573
JVC	557, 558, 559, 560
Kawasho	548, 561, 712
Kenwood	506, 573, 712
Kloss	522, 561, 610, 698
KTV	526, 539, 540, 541, 691, 696, 712
Lloyds	695
Lloytron	526
Loewe	588
Logik	518
Luxman	523
LXI	503, 563, 566, 590, 595, 617, 625, 701
Magnasonic	573
Magnavox	506, 520, 525, 536, 564, 565, 566, 567, 568, 569, 573, 575, 610, 710, 712
Marantz	506, 566, 573, 588, 712
Matsui	532, 609
Megatron	695
Memorex	518, 532, 590, 695
MGA	504, 505, 506, 571, 573, 695
Mitsubishi	504, 505, 570, 571, 572, 597, 623, 695, 705, 707, 712
Montgomery Wards	505, 506, 515, 518, 534, 536, 543, 564, 565, 567, 568, 607, 619, 712, 714, 715
MTC	505, 506, 516, 523, 531, 695, 712
NAD	502, 617, 695
National	509, 697, 698
National Quenties	697
NEC	505, 506, 507, 517, 523, 573, 627, 712
Nikkai	612, 613, 618
Nordmende	551
Normadic	717
Novabeam	561, 698
Nyon	701
Onwa	541, 691
Optonica	605, 607
Orion	694
Osaki	612
Panasonic	508, 509, 510, 511, 512, 566, 574, 689, 697, 698, 700, 706, 714, 716
Philco	505, 506, 525, 536, 564, 565, 568, 573, 610, 712
Philips	566, 588
Pioneer	502, 548, 551, 576, 708
Portland	505, 526, 712
Proscan	503
Proton	513, 519, 526, 536, 585, 624, 695
Pulsar	501
Quasar	508, 509, 577, 698, 700
Radio Shack	526, 541, 607, 612, 691, 698
RCA	503, 505, 515, 548, 579, 580, 581, 582, 583, 584, 586, 587, 625, 633, 634, 691, 698, 701, 712

	708, 714, 715, 716
Realistic	590
Saba	551
Saisho	532, 533, 609
Sampo	506, 519, 698
Samsung	505, 506, 516, 523, 526, 532, 588, 612, 695, 704, 712, 721
Samwon	620
Sanyo	542, 589, 590, 591, 592, 609
SBR	588
Schneider	588
Scott	526, 534, 537, 541, 593, 600, 691, 696, 701
Sears	503, 523, 534, 542, 563, 589, 590, 594, 595, 596, 598, 599, 601, 602, 603, 604, 617, 695, 703
Seimitsu	695
Sharp	526, 585, 591, 605, 606, 607, 608, 628, 629
Siemens	591
Signature	518
Silver	573
Solavox	612
Sony	500, 578, 609, 619, 622, 690
Soundesign	525, 536, 541, 691, 695
Spectricon	520, 620
Squareview	694
SSS	505, 541, 573, 691, 712
Supra	523
Supre-Macy	522
Sylvania	506, 525, 536, 564, 565, 566, 568, 573, 575, 600, 610, 611, 712
Symphonic	632, 692, 694
Tandy	605, 613
Tatung	509, 698
Technics	508
Techwood	523, 573
Teknika	504, 505, 516, 518, 522, 523, 524, 525, 526, 534, 536, 541, 614, 615, 691, 712
Teleavia	551
Telefunken	551
Teletch	532
Tera	513
Thomas	695
Thompson	709
Thomson	551, 616
TMK	523, 573, 695
Toshiba	516, 590, 596, 617, 618, 631
Tosonic	528
Totevision	526
Toyomenko	695
Universal	543
Vector Research	506
Victor	557
Video Concepts	570, 691
Vidtech	505, 695, 712
Viking	522
Yamaha	505, 506, 712
York	695
Zenith	501, 518, 693
Zonda	620

DEVICE CODES FOR PROGRAMMING THE REMOTE

VCRs

Aiwa	588, 622, 623, 624
Akai	513, 514, 515, 516, 517, 518, 519, 520, 568
Alba	546
Amstrad	588
ASA	565
Audio Dynamics	594, 600
Broksonic	559
Bush	589
Candle	580, 592, 593
Canon	542, 553, 554
Capehart	543, 546
Citizen	591, 592, 593
Craig	591, 608
Croslex	553
Curtis Mathes	554, 592, 605
Daewoo	534, 545, 546, 547, 593
Daytron	546
DBX	594, 600
Dumont	549
Dynatech	588
Electrohome	609
Emerson	505, 506, 507, 508, 509, 510, 511, 512, 559, 568, 588, 590, 609, 618
Finlandia	549
Finlux	549, 565, 588
Fisher	548, 549, 584, 588, 608, 610
General Electric (GE)	550, 551, 552, 554, 572, 591, 605
Goldstar	530, 555, 592, 612, 613
Goodmans	585, 589
Go Video	557, 558, 620
Granada	549, 581
Grundig	565
Harmon Kardon	530, 569
Hinari	589
Hitachi	536, 537, 538, 539, 540, 541, 553, 588, 595, 596, 597
Instant Replay	553
ITT	518
JC Penney	530, 554, 580, 591, 594, 600, 601
Jenson	560
JVC	561, 562, 563, 564, 592, 594, 600, 601
Kenwood	562, 581, 592, 594, 600, 601
Lloyd	588
Logik	589
Luxor	518
Magnavox	527, 553, 554, 556, 565, 611
Marantz	530, 554, 565, 585, 592, 594, 600, 601, 603
MEI	554
Memorex	533, 549, 554, 566, 581, 585, 588, 608
MGA	567, 568, 609
Mitsubishi	562, 567, 568, 569, 570, 571, 609
Montgomery Wards	527, 554, 580, 585, 588, 589, 590, 591, 607, 608, 609
MTC	544, 580, 588
Multitech	588, 589, 591
NAD	573

NEC	530, 531, 532, 562, 592, 594, 599, 600, 601, 602, 603, 604
Olympic	553
Optonica	585
Orion	506, 507
Panasonic	521, 522, 523, 524, 526, 553, 554, 598, 614, 628
Pentax	537, 592
Perdio	588
Philco	553, 554, 611
Philips	553, 554, 565, 585
Pioneer	553, 562, 573, 574, 575, 576, 600
Portland	546, 593
Proscan	553, 605
Pulsar	533
Quartz	581
Quasar	553, 554, 577, 578
Radio Shack	607, 608, 609, 610
RCA	525, 526, 527, 528, 529, 537, 553, 591, 605, 606, 615, 630, 631
Realistic	549, 554, 580, 581, 584, 585, 588
Ricoh	502
Saisho	506, 507
Salora	567, 581
Samsung	517, 534, 579, 580, 591
Sansui	532, 544, 562, 600, 621
Sanyo	549, 581, 582, 583, 608
SBR	565
Schneider	589
Scott	508, 559, 590
Sears	548, 549, 581, 584, 608, 610,
Sentra	546
Sharp	585, 607, 609, 625
Shintom	589
Sony	500, 501, 502, 503, 504, 629
Sylvania	553, 554, 556, 567, 588, 611
Symphonic	588, 594
Tandy	588
Tashiko	588
Tatung	586, 594, 601
Teac	588, 594, 601
Technics	553, 554
Teknika	554, 587, 588
TMK	506
Toshiba	534, 535, 567, 590
Totevision	580, 591
Unitech	580
Vector Reaserch	530, 600
Victor	561, 562, 600
Video Concepts	568, 600
Videosonic	591
Yamaha	530, 592, 594, 600, 601
Zenith	500, 501, 533

DVD PLAYERS

Magnavox	626
Pioneer	619
RCA	627
Sony	617
Toshiba	616

TUNERS/AMPLIFIERS

Aiwa	656, 680
Carver	653
Fisher	653
GE	665
Goldstar	677
JVC	657, 683
Kenwood	676
Luxman	681
LXI	665
Marantz	651
Memorex	675
NAD	669
Nakamichi	671
Onkyo	660, 662, 678
Optimus	664
Panasonic	652
Pioneer	658, 675, 679
Proton	654
Quasar	652
RCA	655
Realistic	665, 666
Scott	659
Sherwood	670
Sony	667, 668, 672, 673, 674, 680, 684
Symphonic	666
Technics	652
Victor	657
Yamaha	663, 682

CABLE TV BOXES

Jerrold	635, 636, 640, 641, 642, 643, 644, 645, 646, 649
Memorex	637
Panasonic	637
Paragon	637
Scientific Atlanta	638, 639, 647, 648, 650