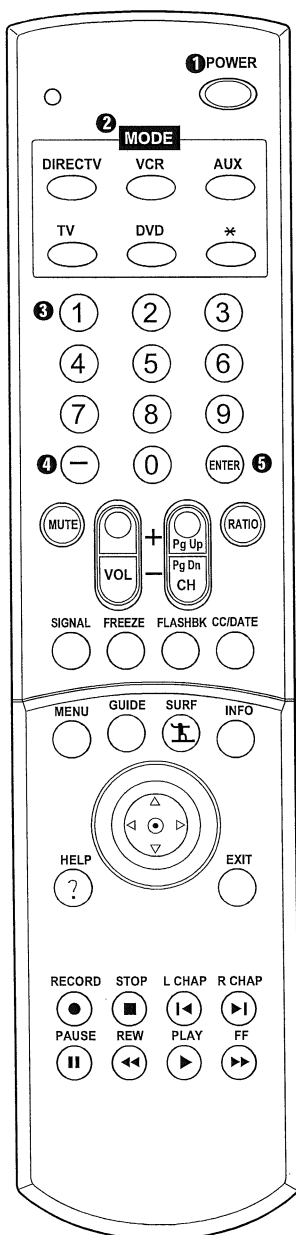


4. ZENITH HD SATELLITE RECEIVER OPERATION

4-2. Using the Remote Control



1 Power

Turns the HD Satellite Receiver on and off. If your remote control is programmed to control other components such as VCR, DVD, etc., Power will turn the component on and off. If you want to control other components from different manufacturers, you must first program your remote control. For further instructions on remote control programming, please refer to the section 4.3 of this operating guide or the Program Remote section of on-screen help.

2 Mode

Selects the component that will be controlled by the remote. For example, if your remote control is set to VCR, the **CH +/-** button will change the channel number of the VCR. If you want to control other components from different manufacturers, you must first program your remote control.

3 Digit Buttons (0-9)

Allows you to enter channel numbers for direct tuning or to scroll to the designated page of the program list on the Guide menu. Digit buttons can be used to enter numerical values wherever required e.g. to enter a password.

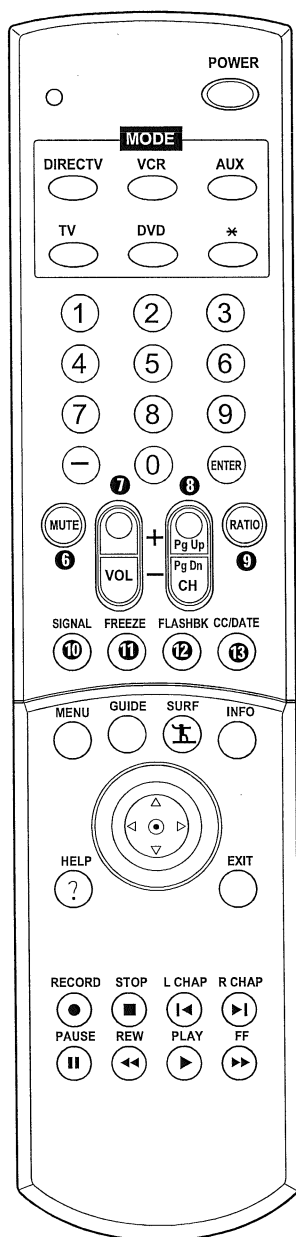
4 Dash (-)

Is used to enter a channel number for multiple program channels such as 2-1, 2-2, etc. A broadcaster may transmit multiple programs on a single channel. Multiple programs are distinguished by a unique sub-channel number, separated by a dash (-).

5 Enter (⊙)

Use with numbered buttons for instant channel selection. When you press a channel number, for example, 22, the receiver awaits another stroke for three seconds and then tunes to 22.

4-2. Using the Remote Control



6 Mute

Is used to temporarily turn off the sound. Press again to restore the sound.

7 Vol +/-

Increases/decreases the sound level of the HD Satellite Receiver.

8 CH +/-

Scrolls the channels up or down while you are viewing a program, or scrolls the program list in the Guide menu page by page. Press and hold the button to speed up and continue scrolling channels.

9 Ratio

Changes the displaying options. When you view a picture with a wide (16:9) aspect ratio in 480i or 480p format, the button changes the displaying options in the cycle of Letterbox, Cropped, to Squeezed. When you view a picture with a normal (4:3) aspect ratio in 720p or 1080i format, the button changes the screen format in the cycle of Normal, Wide, Panorama, Zoom1 and Zoom2. Detailed descriptions of the TV aspect ratios are given in section 2.3 or the TV Aspect Ratio of the Preference menu.

10 Signal

Shows the signal strength of the current channel, if it is a digital over-the-air channel or satellite channel. You may improve the signal strength by adjusting the direction of your over-the-air antenna.

11 Freeze

Freezes the current picture. Press again to resume motion.

12 Flashbk (Flash Back)

Returns to the last channel viewed. Allows you to move back and forth between the last two channels viewed.

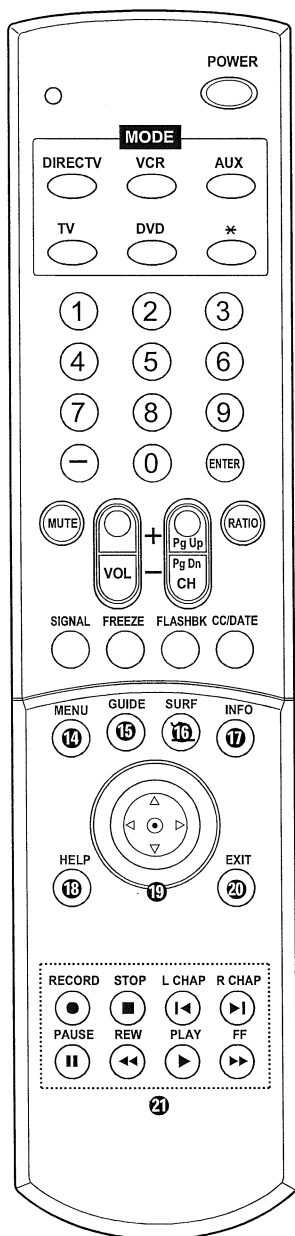
13 CC/Date (Closed Caption)

Lets you turn closed caption on or off. The closed caption mode can be selected in the Closed Caption section of the Preference menu. You can also change the date by pressing the **CC/Date** button in the Advanced Program Guide™.

NOTE : Closed Caption will appear only when it is provided by the broadcaster.

4. ZENITH HD SATELLITE RECEIVER OPERATION

4-2. Using the Remote Control



14 Menu

Brings up the main menu. You can return to normal viewing by pressing the **Exit** button or pressing the **Menu** button again.

15 Guide

Brings up the DIRECTV Advanced Program Guide™. You can also access the Advanced Program Guide™ via the main menu. Return to normal viewing by pressing the **Exit** button or pressing the **Guide** button again.

16 Surf

Shows the list of your surf channels. A Surf channel list can contain up to fifty channels. You can return to normal viewing by pressing the **Exit** button or pressing the **Surf** button again. Refer to Section 6.2 for creating and customizing your own Surf channel list.

17 Info

Displays station and program information in the banner shown at the top of the screen. To remove the banner, press the button again or wait for 10 seconds. You can select the display mode, short or detailed, by pressing "▲▼". You can also change the Audio language, when available, by pressing "◀▶".

18 Help (?)

Shows the on-screen "EZ Help" menu while you are in normal viewing. The "**Help (?)**" button also serves when you are in an on-screen menu. To see the help description of the selected option in the menu, press and hold the "**Help (?)**" button.

19 Thumbstick (Menu directional arrows)

Allows you to navigate the on-screen menus and adjust the system settings and preferences, by moving to a menu option with "▲▼◀▶" and selecting the highlighted option with "◉". If "◉" is pressed while you are in normal viewing, the information banner is displayed.

20 Exit

Clears all on-screen displays and returns to TV viewing from any menu.

21 Component Control Buttons

Provides control for DVD players, VCRs, and similar components. The left and right chapter buttons (L Chap, and R Chap) are used to jump chapter by chapter during DVD playback. The remote control must be programmed for the brand of component being used. For further instructions on remote control programming, please refer to Section 4.3 of this operating guide or the Program Remote section of on-screen help.

4-3. Programming the Remote Control

The HD Satellite Receiver remote control is a multi-brand or universal remote control that can be programmed to control most remote-controllable components of other manufacturers.

NOTE

The remote control may not control all models of other brands.

1. Test your remote control

To find out whether your remote control can operate a component without programming, turn on the component such as a VCR and press the corresponding mode button (VCR) on the remote control while pointing at the component. Use the **Power** and **CH +/-** buttons to see if the component responds properly. If not, the remote control requires programming.

2. Turn on the component to be programmed. Then press the corresponding mode button on the remote control.

3. Press the **Power** button and the **Mute** button simultaneously. The remote control is now ready to program the code for the component.

4. There are two ways to find the right code of the component.

First, if you press the **CH +/-** buttons repeatedly, the code will change one at a time. Press the **Power** button after each code change. If the right code is found, the device will turn off.

Second, enter the code number using the digit buttons on the remote control. The right code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.

5. Press the **Exit** button to store the programming code.

6. Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

4. ZENITH HD SATELLITE RECEIVER OPERATION

4-4. Remote Control Codes for Other Components

TV Codes

Brands	Codes	Brands	Codes	Brands	Codes	Brands	Codes
Akai	146	Hitachi	011 163 166	Nikei	043	Siemens	088
Amark	112 143		158 143 004	OnKing	043	Singnature	072
Ampro	167 073		010 012 023	Onwa	043	Sony	070 147 126
Blaupunkt	088		075 001 009	Optonica	019 081		085 139 041
Broksonic	035		041	Panasonic	034 080 092		079
Candle	002 003 004	Infinity	164		056 164	Soundesign	028 003 043
Capehart	058	Inkel	129	Philco	003 024 056		116
Citizen	002 003 004	JBL	164		059 060 063	Spectricon	112
	043 101 103	J.C Penny	008 030 065		064 164 004	SSS	004 043 116
	143		010 160 004	Philips	143 043 127	Super Macy	002
Classic	043		024 143 009		164 038 070	Sylvania	003 059 060
Concerto	004		156		093 001 003		063 064 164
Contec	039 043 050	Jensen	013		004 143 059		044 160 116
	051	JVC	038 083 145		160		127 140
Coronado	143		034	Pioneer	135 025 023	Tandy	081
Craig	043 054	KEC	043		001 018 116	Tatung	056 062
Crown	043 143	Kloss	002 059		027	Technics	084
Daewoo	004 016 017	KMC	143	Portand	004 143	Techwood	004
	043 044 055	KTV	043 001 143	Proscan	144	Teknika	002 003 004
	071 076 103		154	Proton	116 131 143		024 028 043
	107 111 114	Lodgenet	072		058 171		072 101 143
	117 120 123	Logik	072	Quasar	034 092 056		031 077 103
	125 127 128	Luxman	004	Radio Shack	019 043 047	Telefunken	037 046 086
	136 143	LXI	166 007 015		116 127 143		087
Daytron	116 143		164 160 081	RCA	160 161 165	Telerent	072
Dynasty	043		052		065 156 144	TMK	004 116
Electrohome	007 143	Magnavox	164 059 001		001 004 023	Toshiba	015 138 030
Emerson	028 048 043		003 060 061		024 056 074		007 040 062
	155 005 096		063 064 160	Realistic	007 019 043		101 051
	047 116 153		004 143 127		047	Totevision	143
	151 001 050	Marantz	001 164 077	Runco	168 169	Universal	008 009
Fisher	077 057	Matsui	164	Sampo	058 116	Video Concepts	146
Funai	028 043	Memorex	007 072 116	Samsung	050 089 101	Vidtech	004 116
Futuretech	043	Metz	088		105 113 116	Wards	004 008 009
General Electric	160 144 165	MGA	004 028 042		127 133 137		019 028 060
	073 130 001		049 077 116		143 160		061 063 064
	008 009 034	Minerva	088	Sanyo	166 007 057		072 074 116
	056 074 116		082 020 053		021 033 039		143
	155 091	Mitsubishi	109 024 124		028 043 116	Yamaha	004
Goldstar	102 106 110		001 004 040	Scott	015 030 004	York	116
	112 113 116		116 146 028	Sears	007 028 057	Yupiteru	043
	119 122 127		042		143 094 160	Zenith	072 073 095
	137 143	MTC	101 130 134		116 082 101		157
Hall Mark	116		001 040 016	Sharp	170 081 019	Zonda	112
			024 056 007		028 029 014		
			019		004 022 143		

4-4. Remote Control Codes for Other Components

VCR Codes

Aiwa	034	Instant Replay	031 033	Panasonic	066 070 083	Sharp	149 031 054
Akai	146 043 046	JCL	031 033		145 133 140	Shintom	024
	124 125 142	J.C Penny	012 013 015		074	Sony	009 056 057
	016		066 040 033	Pentax	013 020 031		058 077 003
Ampro	072		101		033 063		149 052 076
Audio dynamics	012 023	Jensen	043	Philco	031 033 034		031 078
	039 043	JVC	048 043 130		067	Soundesign	034
Broksonic	035		150 050 055	Philips	031 067 034	STS	013
Canon	028 031 033		060 012 031		101 054 033	Sylvania	031 059 033
Capehart	018		033		071		034 067
Craig	033 040 135	Kenwood	014 043 048	Pilot	101	Symphonic	034
Curtis Mathes	031 033 041		039	Pioneer	021 048 013	Tandy	010 034
Daewoo	005 007 010	Lloyd	034	Portland	108	Teac	034 039 043
	064 065 108	LXI	034 101 013	Pulsar	072	Technics	031 033
	110 111 112		014	Quartz	002 014	Teknika	031 019 033
	116 117 119	Magin	040	Quasar	033 066 075		034 101
Daytron	108	Magnavox	067 031 034		145	Thomas	034
DBX	012 023 039		041 033 068	RCA	013 020 033	TMK	006
	043	Marantz	031 067 012		041 062 063	Toshiba	112 131 008
Dynatech	034 053		033 069		107 109 140		047 059 082
Electrohome	059	Marta	101		144 145 147		042 013
Emerson	006 029 035	Matsui	027 030	Realistic	003 008 010	Totevision	040 101
	025 027 034	MEI	031 033		014 031 033	Unitech	040
	036 037 046	Memorex	101 003 010		034 040 053	Video Research	012
	101 129 131		014 031 034		054 101	Video Concepts	012 046 034
	138 017 031		053 072 139	Rico	058		141
Fisher	003 008 009		134 033	Runco	148	Videonsonic	040
	010	MGA	045 046 059	Salora	014	Wards	013 024 031
Funai	034	Minolta	013 020	Samsung	032 040 102		034 040 053
General Electric	031 072 144	Mitubishi	059 061 151		104 105 107		054 003 017
	147 033 063		142 013 020		109 112 113		033 131
	107 109		045 049		115 120 122	Yamaha	012 043 034
Goldstar	012 013 020	MTC	034 040		125		039
	101 106 114			Sansui	022 043 048	Zenith	072 080 056
	123	Multi Tech	024 034		135		048 034 101
Go Video	132 136	NEC	012 023 043	Sanyo	003 010 014		058
Harman Kardon	012 045		048 039		134 007		
Hitachi	004 026 034	Nordmende	043	Scott	017 037 129		
	043 150 063	Optonica	053 054		112 131		
	137 018			Sears	003 008 010		
					013 014 081		
					101 009 020		
					031 042		

DVD Codes

Code	Supported Brands
960	Zenith 2300
961	Toshiba
962	Sony
963	Pioneer
964	Mitsubishi
965	JVC

4. ZENITH HD SATELLITE RECEIVER OPERATION

4-4. Remote Control Codes for Other Components

AUX (AUDIO)

Goldstar	005	Hitachi	010	JVC	006 039 049	KENWOOD	001 013 029
Luxman	017	Marantz	002 021 028		050		031 044
NAD	014		030 032 035	ONKYO	008 009 025	Optimus	011 013 022
Panasonic	003 015 036	Pioneer	007 016 020		040 041	Quasar	003 036
	046		023 024 026	Sharp	013 029 043	Sherwood	021 019
RCA	004		033 037 047		045	Sony	027 034 038
Toshiba	042	Victor	006 039				048 053

AUX (CD)

Adc	104	KENWOOD	105 110 113	Optimus	100 107 110	Sharp	110 141 150
Aiwa	149 178 189		118 144 154		124 139 140		181 200 204
	202 219		155 198 200		145 146 162		210 150 217
Akai	134 165 200		216 217		164 165 170	Sherwood	102 115 116
Denon	101 190 221	Luxman	108 123 153	Panasonic	106 151 176		128 141 193
	222 223		173		184 203 219	Sony	100 142 168
Emerson	133 136 152	Magnavox	127 135 172		233		174 182 183
	166 175		179 180	Philips	127 135 195		192 308 234
Marantz	002 021 028	Mcs	111 147 156		199 237		235 236
	030 032 035		169	Pioneer	107 124 167	Technics	106 148 151
Fisher	113 122 138	Mitsubishi	120 179 229		171 179 187		176 184 203
	140 168		230 231		191 205 206		214 218
GE	209	Onkyo	125 126 130		207	Teac	103 112 132
Hitachi	133 166		131 213 215	Quasar	106 176		141 160 161
JVC	117 196 227		232	Radio shack	186 188		177 185 161
	228			Sanyo	121 140 158		197 201
					168	Yamaha	109 119 137
				Sears	147		143 194 211