Synergy® V
Universal / DVR Remote Control
Model RT-U62CD

Programming And Operating Instructions

1. Introduction

Your Synergy® V Universal / DVR remote control is simple to program, easy to use, and can operate up to five (5) electronic devices, which include:

CABLE	Cable set-top terminals
TV	Televisions
VCR	VCR
DVD	DVD
AUDIO	Audio receivers, amplifiers, CD players

Before you can use your remote control, it must be programmed (set-up) to operate the above devices.

2. Before Getting Started

Some of the special features and buttons on your remote control are as follows:

Point and Press® Programming

Lets you program your TV, VCR, DVD, AUDIO devices without using codes. For more information, see sections 5 and 14.

[ALL] SmartKey®

Turns your CABLE set-top terminal and TV on / off with <u>one</u> button press. [ALL] can also be programmed to turn on / off additional electronic devices, or automatically set your correct TV output channel. For more information, see section 9.

[MODE]

Indicates which mode (i.e. CBL, TV, VCR, DVD, AUDIO) the remote is currently operating in by illuminating the power button. To change to a different mode, press [MODE], then the power button for the electronic device you wish to operate. For more information, see Section 15.

Memory Guard®

Eliminates reprogramming after battery changes.

3. Installing / Replacing Batteries

Install two (2) <u>new</u> AA Alkaline batteries. Properly match the "+ / -" ends of the batteries with the diagram in the battery compartment.

When the batteries become low and need to be replaced, the [CBL], [TV], [VCR], [DVD], [AUDIO] buttons will not illuminate normally or at all during use.

When this happens, replace the existing batteries with two (2) <u>new</u> AA Alkaline batteries to restore normal operation to the remote control.

4. Programming Your Cable Set-Top Terminal

Your remote control is pre-programmed to operate the Motorola 62xx series DVR set-top terminal. To operate a different cable set-top terminal, look up the brand and model in the Cable Setup Code list and follow these steps:

1. Press [OK], then [MUTE] <u>together</u> until the power / mode buttons illuminate in slow-rotation (i.e. CBL → TV → VCR → DVD → AUDIO --> CBL).

2. From the Cable Setup Code list, locate the 3-digit code for your brand / model and enter it on the keypad of the remote control. The set-top terminal will turn off.

3. Then, press [OK] to lock in the code. The power / mode buttons will blink 3-times and go out.

Cable Setup Codes

Motorola
    DCT (all except DVR)   001
    CFT 2200   001
    DCT – 62xx series DVR terminals   002

Jerrold
    DL4, DP(V), DQN(V), DPBB   003

Scientific Atlanta
    Explorer® 8000 (SARA - RT-U59C)   412
    Explorer® 8000 (Passport - RT-U61CP) 413
    Explorer®   004
    8600X   005
    8600   006

Pace
    510 Digital   004
    HD Digital   010

Pioneer
    Voyager®   004
    BA-V1000, BA-V2000   007

Tocom
    5503VIP, 5507, 5508   008

Zenith
    MM 2500   009
    Digital   013

5. *Programming Your TV, VCR, DVD, and AUDIO Devices*

Code-Entry Programming

1. Turn on all the electronic devices (TV, VCR, DVD, AUDIO) you want to program the remote to operate.

2. Press [OK], then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…).

3. a. To program your TV, locate the 3-digit code for your brand in the TV Setup Code list and enter it on the keypad of the remote control. Entry of the correct code will cause your TV to turn off. If multiple codes are listed for your brand, you may have to try several different codes until your TV turns off.

    b. As soon as you have entered a 3-digit code that turns your TV off, press [MUTE].

        1. If the TV turns back on, press [OK] to lock in the code. The power / mode buttons will blink 3-times and go out.

        Or

        2. If the TV does not turn back on, enter a different 3-digit setup code until your TV turns back on. Then press [OK] to lock in the code. The power / mode buttons will blink 3-times and go out.

4. To program your VCR, refer to the VCR / DVD Setup Code lists and repeat steps 2 and 3 above.

5. To program your DVD, refer to the VCR / DVD Setup Code lists and repeat steps 2 and 3 above.

6. To program your AUDIO equipment, refer to the AUDIO Setup Code list and repeat steps 2 and 3 above.

Point and Press® Programming

This method allows you to <u>program</u> the remote control <u>without</u> using <u>codes</u>. Instead, the remote control automatically finds the correct command that you select in a variety of codes until you find the code that operates your device. You then lock in the correct code as described below.

The following instructions describe how to program your remote control using the [CH +] or [CH -] buttons ("Power" function during programming). You may also program your remote control using other buttons / functions as described in Section 14. When using this method, there are several important points to remember:

- The order in which you program your electronic devices is <u>not</u> important.

- There may be several codes that turn your electronic devices on / off (or perform other functions). Once you lock-in a code, be sure to check the available functions for that device (i.e. TV - Vol +/-, Mute, TV Input (Video Source button); VCR - Play, Stop..; DVD - Play, Stop...; AUDIO - Vol +/-, Mute) to see if they are operating.

- While the remote is searching for the correct setup code(s) for your electronic devices, it is possible that other (previously programmed) devices may turn on / off (or perform other functions). If this occurs, continue pressing the [CH +] or [CH -] buttons (or the buttons described in Section 14) until you find the correct code for the device you are programming.

- It may take several minutes for the remote to find the correct code that turns your device off (or performs another selected function). During this time, the power / mode buttons will illuminate in fast-rotation (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…).

Programming your electronic devices using the [Ch +] or [Ch -] buttons ("Power" function during programming)...

1. Turn on all the electronic devices (TV, VCR, DVD, AUDIO) you want to program the remote to operate.

2. Press [OK], then [MUTE] <u>together</u> until the power / mode buttons illuminate in slow-rotation (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…).

3. Press and hold the [CH +] button until <u>one</u> device turns off. While you are pressing the [CH +] button, the power / mode buttons will illuminate in fast-rotation. As soon as one device turns off, release the [CH +] button.

4. Press [MUTE]. If the device that turned off...

   a. Turns back on, press [OK] to lock in this code. The power / mode buttons will blink 3-times and go out.

      Or

   b. Does not turn back on, press [CH -] one step at a time until that device turns back on. Each time you press the [CH -] button, the power / mode buttons will illuminate <u>once</u> in reverse fast-rotation (AUDIO → DVD → VCR → TV → CBL).

      Once you have found a code that turns the device on / off, press [OK] to lock in this code. The power / mode buttons will blink 3-times and go out.

5. Repeat steps 2 to 4 above for each of the remaining electronic devices you wish to program the remote to operate.

6. Programming Your TV / VCR Combination

1. <u>First</u>, turn on your TV / VCR combination device and install a VHS tape.

2. <u>Next</u>, program your remote to operate the <u>TV</u> functions.

   Using the Code Entry Programming method described in Section 5, find a <u>TV Setup Code</u> that operates the TV functions (Power, Vol +/-, Mute) of your TV / VCR combination.

3. <u>Last</u>, program your remote to operate the <u>VCR</u> functions.

   Using the Code Entry Programming method described in Section 5, enter, lock and test each 3-digit <u>VCR Setup Code</u> for your brand until a code is found that operates the transport functions (Play, Stop, Rew, Pause, Rec) functions of your TV / VCR combination.

7. *Programming Your TV / DVD or TV / VCR / DVD Combination*

1. <u>First</u>, turn on your TV / DVD combination device and install a DVD.

2. <u>Next</u>, program your remote to operate the <u>TV</u> functions.

   Using the Code Entry Programming method described in Section 5, find a <u>TV Setup Code</u> that operates the TV functions (Power, Vol ▲/▼, Mute, Ch ▲/▼, 0-9) of your TV / DVD unit.

3. <u>Last</u>, program your remote to operate the <u>DVD</u> functions.

   Using the Code Entry Programming method described in Section 5, enter, lock and test each 3-digit <u>DVD Setup Code</u> for your brand until a code is found that operates the transport functions (PLAY, STOP, REW, FWD, PAUSE, REC) of your TV / DVD unit.

   Before you can test for the correct DVD setup code, you must first press the [MODE] button, then [DVD] button to put the remote in its DVD mode.

4. If you have a <u>TV / VCR / DVD</u> combination unit, you would then program your remote to operate the <u>VCR</u> functions.

   Using the Code Entry Programming method described in Section 5, enter, lock and test each 3-digit <u>VCR Setup Code</u> for your brand until a code is found that operates the VCR transport functions (PLAY, STOP, REW, FWD, PAUSE, REC) of your TV / DVD / VCR unit.

   Before you can test for the correct VCR setup code, you must first press the [MODE] button, then [VCR] button first to put the remote in its VCR mode.

TV Setup Codes

Admiral	026	054	211	
Adventura	047			
Advent	072	094	425	
Aiwa	214			
Akai	053			
Amark	023	215		
Amstrad	157			
Anam	217	218	219	220	221
	222	223		
AOC	053			
Apex	030	038	427	
Audiovox	220			
Belcor	073			
Bell & Howell	211			
Broksonic	165	167		
Brokwood	073			
Candle	068	091		
Centurion	095	107	108	
Citizen	068	091	211	233
Concerto	073	095		
Contec	147			

Coronado	023				
Craig	223				
Crown	023				
Curtis Mathes	016	054	107	108	211
	213				
Daewoo	051	068	073	095	158
	159	189	191	194	196
	197	198	200	202	204
	205	206	207	209	
Daytron	073	095	107	108	
Dumont	073				
Electro Home	073	095			
Elektra	353				
Emerson	016	023	053	064	103
	139	158	159	164	165
	166	167	168	169	392
	400	401	402	408	415
Envision	073	095			
Fisher	355	356			
Funai	047				
GE	015	018	042	044	049
Gateway	426				
	054	055	068	073	090
	095	101	102	103	389
	390	396	403	406	407
Gibralta	023	048	053	068	073
	090	095	107	108	233
	360				
Goldstar (LG)	023	053	068	073	090
	107	108	233	360	361
Grundig	233				
Hall Mark	073	095			
Hitachi	023	068	095	096	097
	098	099	100		
Inkel	364				
JC Penney	039	053	068	073	092
	095	102	355		
JVC	104	105	106	396	397
	410				
Kawasho	073	095			
KMC	023				
KTV	023	053	233	366	
Kurazai	211	213			
LG (Goldstar)	023	053	068	073	090
	107	108	233	360	361
Lodgenet	211	213			
Logik	211	213			
Luxman	068	073	095		
LXI	024	026	157		
Magnavox (Philips)	023	068	071	073	089
	090	091	093	134	385
	387	397	404	072	
Majestic	211	213			
Marantz	053	107	108	109	
Megatron	215				
Memorex	090	211	213	355	388
	405				
MGA / Mitsubishi	053	068	073	090	095
	107	109	110	216	384
	394	395	398	399	417
Montgomery Ward	022	023	026	053	071
	072	108	211	213	
NEC	028	068	090	108	200
Orion	019	159	160	161	162
	163	382			
Panasonic	042	043	044	045	046
	429				
Philco	023	053	068	071	072
	091				
Philips(Magnavox)	023	068	071	073	089
	090	091	093	134	385
	387	397	404	072	

Pilot	073	094	233		
Pioneer	111	144	383		
Portland	023	068			
ProScan	055	070			
Proton	090	371	372		
Pulsar	073				
Quasar	044				
Radio Shack	073				
Realistic	022	166	168		
RCA	042	052	053	054	055
	069	070	416		
Sampo	090	108			
Samsung	015	016	017	023	031
	090	107	108	134	147
	151	153	386	411	
Sansui	423	424			
Sanyo	353	355	356	376	377
Scott	090	108	168		
Sears	023	031	038	039	068
	353	355	356		
Sharp	016	022	023	024	025
	026	027	028	029	393
	395	409			
Signature 2000	023	026	108	211	213
Sony	014	020	021		
Soundesign	091				
Squareview	157				
Supre-Macy	380				
Sylvania	068	071	072	090	091
	093	107	108	157	158
	419				
Symphonic	047	157	419		
Tatung	044				
Techwood	068				
Teknika	023	068	072	091	168
	213				
Telerent	023	213			
Tera	381				
Tevion	065	414			
TMK	068	090			
Toshiba	030	031	038	039	
Totevision	233				
Universal	068	102			
Vidtech	068				
Viewsonic	428				
Wards	068	090			
White Westinghouse	211	408			
XR-1000	213				
Yamaha	068				
York	090	108			
Zenith	047	048	049	050	051
	391	405	406	434	

VCR Setup Codes

Admiral	066	075			
Adventura					
Aiwa	132				
Akai	269	275	336	351	352
	354				
Audio Dynamics	243	291			
Bell & Howell	357				
Broksonic	333	337	358	359	
Canon	086	362			
Citizen	033	172	247	331	
Colortyme	291				
Craig	172	363			
Curtis Mathes	086	112	247	291	
Daewoo	033	343	344	345	346
	347				
Daytron	345	365			
DBX	243	291			
Dynatech	132				

Emerson	033	086	132	326	327
	331	332	333	334	335
	336	337	338	339	340
	341	342			
Fisher	035	081	357	363	
Funai	132				
GE	086	172	174		
Go Video	348	349	350		
Goldstar (LG)	247	331			
Harman Kardon	291				
Hitachi	078	132			
Instant Replay	086				
JC Penney	078	086	172	238	291
JCL	086				
JVC	120	128	243	247	250
	253				
Kenwood	120	132	238	243	247
LG (Goldstar)	247	331			
Lloyd	132				
Logik	367				
LXI	132	331			
Magnavox (Philips)	086	132	183	172	
Marantz	086	172	183	238	247
	291				
Marta	331				
Matsui	368				
Memorex	132	238	331	363	369
	370				
Mitsubishi	255	258			
MTC	132	172			
Montgomery Ward	066	170	173	373	
Multi Tech	132	172	367		
NEC	120	238	243	291	374
	375				
Orion	322	326	327	328	329
	330				
Panasonic	112	117	430		
Pentax	078				
Philco	086	132	183		
Philips (Magnavox)	086	132	183	172	
Pioneer	078	120	263		
Portland	345				
ProScan	170	174			
Quartz	238	378			
Quasar	112				
RCA	078	132	141	170	172
	173	174			
Realistic	066	132	238	363	
Samsung	269	271	275	276	278
Sansui	120	367	379		
Sanyo	238	346	357	363	
Scott	033	332	367		
Sears	035	078	238	331	363
Sharp	066	075			
Shintom	367				
Signature 2000	066	170	173	373	
Sony	056	058	060		
Soundesign	132				
Sylvania	086	132	141	183	184
	322	324	420		
Symphonic	132				
Tandy	132	238			
Tashiko	331				
Tatung	243				
Teac	132	243			
Technics	086				
Teknika	132	331	359		
Thomas	132				
TMK	338				
Toshiba	033	035	078	081	
Totevision	172	331			
Unitech	172				
Vector Research	291				

Video Concepts	132	291			
Wards	066	132	172	247	331
XR-1000	367				
Yamaha	132	243	291		
Zenith	058	120	122	128	132
	435				

DVD Setup Codes

Apex Digital	193	227			
B144	146				
Denon	201	203			
DVD-Video	199				
ECA	156				
GE	150	152	156	175	
Goldstar (LG)	129	133	135	179	260
Gradiente	212	234			
Harmon Kardon	256	259			
Hitachi	149				
JVC	177	179			
Kenwood	228				
KLH	248	252			
LG (Goldstar)	129	133	135	179	260
Magnavox	138	143	146		
Marantz	270				
Mitsubishi	181	185			
Mintek	432				
NAD	246				
Onkyo	085	244			
Panasonic	115	118	121	124	431
Pioneer	125	187	188		
Proceed	236				
RCA	156				
Samsung	192	224	225		
Sharp	034	076	077	079	
Sony	040	059	061	436	
Sylvania	421				
Thomson	156	237			
Toshiba	082	085	087	113	
Yamaha	121	124	210		
Zenith	129	133	135		

Audio Setup Codes

Compact Disc

ADC	318				
Akai	249	261			
Aiwa	176				
Carver	176				
Crown	154				
Denon	273				
Fisher	230	274			
Goldstar (LG)	308				
Harman Kardon	315				
JVC	297				
Kenwood	131	176	274	289	299
Krol	176				
LG (Goldstar)	308				
Magnavox (Philips)	037	084	119	296	
Mission	176				
Mitsubishi	245	249			
NAD	182	231	290		
Nakamichi	264	319			
NEC	235				
NSM	176				
Onkyo	300				
Panasonic	184	266	437		
Philips (Magnavox)	037	084	119	296	433
Pioneer	116	127			
Quasar	184				
Radio Shack	186	190	266	279	289
RCA	295				
Sanyo	230	309			

SAE	176		
Scott	186		
Sharp	288	289	
Sony	067	292	293
Soundesign	148	242	311	320
STS	318		
Sylvania	084		
Teac	186		
Technics	184	208	317
Toshiba	290		
Yamaha	280		

Receiver / Amplifier

Adcom	325			
Aiwa	301			
Akai	142			
Bose	302	440		
Carver	155	180		
Denon	262	307		
Everquest	136			
Fisher	063	180		
Fosgate Audionics	305			
Goldstar (LG)	036			
Harman Kardon	130	257	305	306
Hitachi	240			
Jensen	140			
JVC	114	241		
Kenwood	063	277		
LG (Goldstar)	036			
Luxman	281			
Magnavox	080			
Marantz	282	283	284	285
NAD	286			
Onkyo	126	171	304	
Optimus	142	229	321	
Panasonic	032	074	438	441
Parasound	323			
Philips (Magnavox)	080			
Pioneer	123	137	251	298
Quasar	032			
Radio Shack	229	267		
Realistic	226	268		
RCA	439			
Rotel	310			
Sansui	283			
Sanyo	195			
Scott	272			
Sharp	294			
Sherwood	229	267		
Sony	041	057	232	287	442
Soundesign	083	088	239	265
SSI	313			
Taekwang	142			
Teac	314	316		
Technics	032			
Wards	063			
Victor	114	241		
Yamaha	145	254	303	
Zenith	036	083	088	239	265

8. Code Number Read-Back

To identify the 3-digit setup codes stored under the Point and Press® programming method, follow these steps:

To identify the TV setup code…

1. Press [TV], then [OK] together until the [TV] button illuminates.

2. Press [INFO]. The [TV] button will "blink back" the code numbers, with a 1-second interval between each digit of the code.

Example: For code "035", the remote will blink 10 times, then 3 times, then 5 times.

To identify the 3-digit VCR code, press [VCR], then [OK] in step 1, then press [INFO].

To identify the 3-digit DVD code, press [DVD], then [OK] in step 1, then press [INFO].

To identify the 3-digit AUDIO code, press [AUDIO], then [OK] in step 1, then press [INFO].

9. ALL SmartKey®

Once you have programmed the remote to operate your electronic devices, you can press the [ALL] SmartKey® to turn your Cable set-top terminal and TV on / off with <u>one</u> button press. You can also program the [ALL] button to turn on / off additional electronic devices and / or tune your TV to its correct output channel.

Programming the [ALL] SmartKey®

1. Press [ALL], then [MENU] <u>together</u> until the [CBL] button illuminates.

2. Enter one of the following options on the keypad of the remote:

   [0] - Turns on / off CBL + TV (default setting)
   [1] - Turns on / off CBL + TV and tunes TV to output Channel 3.
   [2] - Turns on / off CBL + TV and tunes TV to output Channel 2.
   [3] - Turns on / off CBL + TV and tunes TV to output Channel 4.

   [10] - Turns on / off CBL + TV + VCR + DVD
   [4] - Turns on / off CBL + TV + VCR + DVD and tunes TV to output Channel 3.
   [5] - Turns on / off CBL + TV + VCR + DVD and tunes TV to output Channel 2.
   [6] - Turns on / off CBL + TV + VCR + DVD and tunes TV to output Channel 4.

   [11] - Turns on / off CBL + TV + VCR + DVD + AUDIO
   [7] - Turns on / off CBL + TV + VCR + DVD + AUDIO and tunes TV to output Channel 3.
   [8] - Turns on / off CBL + TV + VCR + DVD + AUDIO and tunes TV to output Channel 2.
   [9] - Turns on / off CBL + TV + VCR + DVD + AUDIO and tunes TV to output Channel 4.

   [12] - Turns on / off CBL + TV + AUDIO
   [13] - Turns on / off CBL + TV + AUDIO and tunes TV to output Channel 3
   [14] - Turns on / off CBL + TV + AUDIO and tunes TV to output Channel 2
   [15] - Turns on / off CBL + TV + AUDIO and tunes TV to output Channel 4

3. As soon as you select an option, the [CBL] button will blink 3-times and go out.

Using the [ALL] SmartKey®

When pressing the [ALL] SmartKey®, be sure to keep the remote control aimed at your electronic devices until your electronic devices turn on or / off.

Whenever the [ALL] SmartKey® is pressed, the mode of the remote control will automatically switch back to Cable.

10.   Volume Control

When you first program your remote, volume / mute are controlled through your TV (except AUDIO which defaults to the AUDIO device). The volume control options in each mode of the remote are:

   CBL   TV (default), Cable or Audio.
   TV   TV (default), Cable or Audio.
   VCR   TV (default), Cable or Audio.
   DVD   TV (default), Cable or Audio.

AUDIO   AUDIO device (default), Cable or TV.

To control volume / mute through your Cable set-top terminal in the remote's Cable mode…

1. Press [CBL], then [OK] <u>together</u> until the [CBL] button illuminates.

2. Press [VOL +], then [CBL] for Cable volume. The [CBL] button will blink 3-times and go out.

To return volume control to your TV, repeat step 1, then press [VOL +], then [TV] in step 2.

11. Channel Memory Button - [M1]

Your remote has 1 Channel Memory Button ([M1] - See Section 15) which can store up to 5 cable channels. This button may come pre-set / labeled to channels selected by your cable operator. If this button has not been pre-set by your cable operator, it can be programmed as follows:

Programming Channel Memory Button

To program the [M1] button to cable channels 1, 12, 123, 1234, 17, follow these steps:

1. Press [M1], then [CBL] <u>together</u> until the [CBL] button illuminates.

2. Enter each channel as follows (ex. assumes 4-digit channel format):

   a. Enter 1st channel # - 0001.
   b. Press [CH +] to advance to next channel # setting.
   c. Enter 2nd channel # - 0012.
   d. Press [CH +] to advance to next channel # setting.
   e. Enter 3rd channel # - 0123.
   f. Press [CH +] to advance to next channel # setting.
   g. Enter 4th channel # - 1234.
   h. Press [CH +] to advance to next channel # setting.
   i. Enter 5th channel # - 0017.

3. Press [M1] to store the above channels. The [CBL] button will blink 3-times and go out. To store fewer than 5 channels, you can press the [M1] button any time after entering a complete channel number.

Using Channel Memory Button

Using the above programmed channels as an example…

1. Press [M1] – Cable set-top terminal tunes to channel 0001.
2. Press [M1] again – Cable set-top terminal tunes to channel 0012.
3. Press [M1] again – Cable set-top terminal tunes to channel 0123.
4. Press [M1] again – Cable set-top terminal tunes to channel 1234.
5. Press [M1] again – Cable set-top terminal tunes to channel 0017.
6. Press [M1] again – Cable set-top terminal tunes to channel 1….repeat.

Whenever the Channel Memory button is pressed, the function of the transport buttons will automatically switch back to Cable.

When pressing the Channel Memory Button, be sure to keep the remote control aimed at your Cable set-top terminal to ensure the full channel numbers are received in their entirety.

If you are using your Synergy® V remote to operate a Cable set-top terminal other than the Motorola 62xx series DVR model, you may only have to enter channels in a 3-digit format (ex. 012).

12. Input

This button changes the input source of your electronic devices. In the remote's Cable mode, this operates a Cable

function. In the remote's TV mode, this button changes the Input Source (Input 1, Input 2...) on your TV. In the remote's VCR mode, this button changes the TV / VCR Input on your VCR.

You can program this button so that in the remote's Cable mode, [INPUT] will operate the Input function on your TV or VCR, eliminating the need to change modes on the remote.

To program [INPUT] to operate your TV Input function in the remotes cable mode...

1. Press [INPUT], then [OK] <u>together</u> until the [CBL] button illuminates.

2. Press [TV]. The [CBL] button will blink 3-times and go out.

Note: You can also press [VCR] in step 2 above to operate the TV / VCR function on your VCR. Or press [CBL] to return to the normal CBL Video Source function.

13. Reset

To reset your remote control to its factory default settings…

1. Press [CBL], then [OK] <u>together</u> until the [CBL] button illuminates.

2. Press [MENU], then [MENU] again. The [CBL] button will blink 3 times and go out.

Reset returns the ALL SmartKey®, Volume / Mute, Mode Lock™ features to their factory default settings.

14.   Additional Programming Information, Troubleshooting, Terms

Additional Programming Information

1. The power / mode buttons will illuminate in slow-rotation (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…) while the remote is in a programming mode. In the absence of a keypress entry, the power / mode buttons will stop illuminating after 45 seconds and the remote will exit the programming mode.

2. When programming the remote control using the [CH +] or [CH -] buttons (Power function) in the Point and Press® Programming method, you may find a code that turns a device off but not back on. If this happens…

   a. The correct code has not been found as you may have a code that operates some but not all of the functions of your device. Continue pressing [CH +] until your device turn on.

      OR

   b. You may have gone past the correct matching code.   Try pressing [CH -] one press at a time until you find a code that turns your device back on.

3. When using the Point and Press® Programming method, you can also program your remote using buttons other than the [CH +] or [CH -] as described in Section 5 as follows:

   a. [VOL +] – to "go forward" through the codes using the "VOL +" function on your devices.
   b. [VOL -] – to "go back" through the codes using the "VOL -" function on your devices.

      Note: When you find the correct code, the volume of the device being programmed will increase or decrease.

   c. [▲] - to "go forward" through the codes using the "CH +" function on your devices.
   d. [▼] - to "go back" through the codes using the "CH –" function on your devices.

      Note: When you find the correct code, the channel of the device being programmed will increase or decrease.

   e. [►►] - to "go forward" through the codes using the "Fast Forward" function on your devices.
   f. [◄◄] - to "go back" through the codes using the "Rewind" function on your devices.

Note: When you find the correct code, the fast-forward or rewind function of the device being programmed will be performed. To simplify programming using these buttons, insert a VHS tape or DVD in the device being programmed.

You can also program your remote using the other available functions as follows:

a. Press [OK], then [MUTE] <u>together</u> until the power / mode buttons illuminate in slow-rotation (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…).

b. In this order, carefully press [0], [0], [0], [CH+] and [VOL+]. The power / mode buttons illuminate in slow-rotation (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…).

c. You can now program your remote using the [CH+], [CH -], [VOL+], [VOL -], [▲], [▼], [FFWD], [REW], [PLAY], [STOP], [REC], [PAUSE], [LAST], [FAV], [0] - [9] buttons. When you find the correct code, the function associated with the selected button will be performed.

4. Your remote is equipped with a Point and Press® Programming label on the back of its case. This will help you quickly program the remote without using codes.

Troubleshooting / Tips

1. If the same button is pressed and held for 45-seconds, your remote control will turn itself off automatically. This extends the battery life should the remote become lodged under or between heavy objects, for example sofa cushions.

2. If you have a TV that's operated by remote control, it is recommended that you plug it directly into a wall outlet instead of the cable set-top terminal.

3. If you have any questions concerning the brand, model or operation of your cable set-top terminal, contact your cable operator.

Frequently Used Terms

<u>AUDIO Devices</u> - Audio receivers, amplifiers, CD players that you can program your remote to operate.

<u>DVR</u> - Digital Video Recorder.

<u>Default Setting</u> – How your remote is set when you receive it from your cable operator.

<u>Electronic Components / Devices</u> - The various electronics device the remote is designed. These include cable set-top terminals, TVs, VCRs, DVDs, audio-video receivers, amplifiers and CD players.

<u>Fast-Rotation</u> - The power / mode buttons will illuminate in a fast sequence (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…) repeated every 1/3 second. Fast-rotation occurs when the remote is receiving keypresses to program it to your electronic devices.

<u>Mode</u> - The device the remote is set to operate (ex. Cable, TV, VCR, DVD, Audio)

<u>PIP</u> – Picture-in-picture functionality through your Cable set-top terminal.

<u>Program (Setup)</u> – The process of teaching your remote control to operate your electronic devices.

<u>Slow-Rotation</u> - The power / mode buttons illuminate in a slow sequence (i.e. CBL → TV → VCR → DVD → AUDIO → CBL…) repeated every 1 second. Slow-rotation illumination occurs when the remote is in the programming mode, waiting for the next entry on the keypad of the remote.

<u>TV Output Channel</u> - The channel your <u>TV</u> needs to be set on for proper Cable reception (most often TV channel 3, but may be TV channel 2 or 4). If you have any questions concerning your TV output channel, contact your cable operator. Or, with your cable set-top terminal turned on, try setting your TV to channel 2, 3 or 4 to obtain a clear picture.

<u>Transport Functions</u> - These are the [STOP], [PLAY], [FWD], [REW], [PAUSE] and [REC] buttons. In the remote control's Cable mode, these buttons operate your Cable set-top features. In the remote control's VIDEO mode, these operate your VCR or DVD functions.

<u>VIDEO Devices</u> - VCR or DVD players.

Device Setup Codes

If you find that the setup codes listed above do not operate your devices, it is possible your remote was manufactured before the revision date printed on this Instruction Manual. If this occurs, contact your cable operator and request a newer version of your remote control.

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U.S. Patent 6,507,306

15. Using Your Synergy® V - Universal / DVR Remote Control

Important: The following diagram shows how to use the buttons on your remote control to operate the DVR and PIP functions of the Motorola DCT 62xx series DVR set-top terminal. To access these functions, set the remote control to its Cable mode by pressing the [MODE] button, followed by the [CBL] button.

Illuminate / select electronic device being operated. Press Mode, then…
- CBL - for Cable mode
- TV - for TV mode
- VCR - for VCR mode
- DVD - for DVD mode
- AUDIO - for Audio mode

Access cable guide

Moves through on-screen display or cable guide menu (▲,▼,▶,◀)

Access on-screen display for cable device

Functions set by cable operator (A, B, C)

Day◀ / ▶ in cable guide

Display Help screen on cable device

Replay previous few seconds of program (DVR set-top terminals only)

Listing of recorded programs (DVR set-top terminals only)

Rewind DVR, VCR, DVD

Stop DVR, VCR, DVD

Change viewing aspect of cable device

PIP on / off

Swap PIP & and main screen

Selects video source

Channel memory button (may be labeled or pre-set by cable operator)

CBL & TV on / off (programmable)

Individual device on / off power

Access on-screen display for cable device

Display channel / program information

Move ↑ / ↓ through on-screen displays, cable guide

Selects highlighted on-screen or cable guide choice

Exit any on-screen display

Recall pre-selected favorite channels

Return to last selected channel

Display live TV programming (DVR set-top terminals only)

Fast-forward DVR, VCR, DVD

Play DVR, VCR, DVD

Record DVR, VCR

Pause DVR, VCR, DVD

Digital Music

Move PIP screen

PIP channel +/-

Access Pay-Per-View programming where available

Access Video-On-Demand programming where available

RT-U62CD-1S