

**Synergy® V**  
**Universal / DVR Remote Control**  
**Model RT-U62SD+**



Programming and Operating Instructions  
Rev. 04/2005  
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## 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:

<b>S-A</b>	Scientific-Atlanta digital / DVR cable set-top terminal
<b>TV</b>	Televisions
<b>VIDEO</b>	VCR or DVD
<b>AUDIO</b>	Audio receivers, amplifiers, CD players
<b>MOT</b>	Motorola (MOT) digital / DVR cable set-top terminal

Before you can use your remote control, it must be programmed (set-up) to operate your TV, Video (VCR or DVD) and Audio 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, Video, Audio devices without using codes. For more information, see sections 5 and 11.

### Memory Guard®

Eliminates reprogramming after battery changes.

## 3. Installing / Replacing Batteries

Install two (2) new 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 [S-A], [TV], [VIDEO], [AUDIO], [MOT] buttons will not illuminate normally or at all during use, and the remote will no longer operate your devices. When this occurs, replace the existing batteries with two (2) new AA Alkaline batteries to restore normal operation to the remote. For more information, see Section 11.

## 4. Programming Your Cable Set-Top Terminal

Your remote control is pre-programmed to operate the Scientific Atlanta Explorer® 8000 and Motorola DCT 6xxx series Digital / DVR set-top terminals. Therefore, no further programming of your Cable devices is necessary.

## 5. Programming Your TV, VIDEO (VCR or DVD) and AUDIO Devices

### Code-Entry Programming

1. Turn on all the electronic devices (TV, VCR or DVD, Audio) you want to program the remote to operate.
2. Press [SEL / OK], then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. S-A → TV → VIDEO → AUDIO → MOT...).
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 [SEL / 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 [SEL / OK] to lock in the code. The power / mode buttons will blink 3-times and go out.
4. To program your Video & Audio devices, refer to the VCR / DVD & Audio Setup Code lists and repeat steps 2 and 3 above.

### Point and Press<sup>®</sup> Programming

This method allows you to program the remote control without using codes. 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 11. When using this method, there are several important points to remember:

- The order in which you program your electronic devices is not 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 (Input), VCR or DVD - PLAY, STOP, REW...) 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 11) 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. S-A → TV → VIDEO → AUDIO → MOT...).

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

1. Turn on all the electronic devices (TV, VCR or DVD, Audio) you want to program the remote to operate.
2. Press [SEL / OK], then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. S-A → TV → VIDEO → AUDIO → MOT...).
3. Press and hold the [CH +] button until one 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 [SEL / 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 once in reverse fast-rotation (MOT → AUDIO → VIDEO → TV → S-A).

Once you have found a code that turns the device on / off, press [SEL / 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 or TV / DVD Combination

1. First, turn on your TV / VCR or TV / DVD combination device and install a VHS tape or DVD.
2. Next, program your remote to operate the TV functions of your combination device.

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

3. Last, program your remote to operate the VCR or DVD functions of your combination device.

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

Before you can test for the correct VCR or DVD setup code, you must first press the [VIDEO] button to put the remote in its VIDEO (VCR or DVD) mode.

### TV Setup Codes

Admiral	026 054 211 213
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	211 213
Broksonic	165 167
Brokwood	073
Candle	068 091
Centurion	095 107 108
Citizen	068 091 211 233 213
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	048	157	168	211
Gateway	426				
GE	015	018	042	044	049
	054	055	068	073	090
	095	101	102	103	389
	092	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
Go Video	443				
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				
Jensen	062				
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	
	092	094			
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
	108				
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	
	092	094			
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	068	
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	178	
Soundesign	091				
Squareview	157				
Supre-Macy	380				
Sylvania	068	071	072	090	091
	093	107	108	157	158
	419	092			
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	



## 7. Code Number Read-Back

To identify the 3-digit setup codes stored under the Point and Press<sup>®</sup> programming method, follow these steps:  
To identify the TV setup code...

1. Press [TV], then [SEL / 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 VIDEO code, press [VIDEO], then [SEL / OK] in step 1, then press [INFO].

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

## 8. Volume Control

When you first program your remote, volume / mute are controlled through your TV. The volume control options in each mode of the remote are:

S-A	TV (default), Cable or AUDIO.
TV	TV (default), Cable or AUDIO.
VIDEO	TV (default), Cable or AUDIO.
AUDIO	AUDIO (default), Cable or TV.
MOT	TV (default) or Cable or AUDIO.

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

1. Press [S-A] (or [MOT]), then [SEL / OK] together until the [S-A] (or [MOT]) button illuminates.
2. Press [VOL +], then [S-A] (or [MOT]) for Cable volume. The [S-A] (or [MOT]) 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.

## 9. Input / Video Source

This button changes the input source of your electronic devices. In the remote's S-A & MOT modes, 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 S-A or MOT mode, [INPUT / VIDEO SOURCE] will operate the Input function on your TV or VCR, eliminating the need to change modes on the remote.

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

1. Press [INPUT / VIDEO SOURCE], then [SEL / OK] together until the [S-A] button illuminates.
2. Press [TV]. The [S-A] button will blink 3-times and go out.

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

## 10. Reset

To reset your remote control to its factory default settings...

1. Press [S-A] (or [MOT]), then [SEL / OK] together until the [S-A] (or [MOT]) button illuminates.
2. Press [0]. The [S-A] (or [MOT]) button will blink 3 times and go out.

Reset returns the TV, VCR or DVD, Audio set-up codes, Volume / Mute features to their factory default settings.

## 11. Additional Programming Information, Troubleshooting, Terms

### Additional Programming Information

1. The power / mode buttons will illuminate in slow-rotation (i.e. S-A → TV → VIDEO → AUDIO → MOT...) 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.

4. You can also program your remote using the other available functions as follows:
  - a. Press [SEL / OK], then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. S-A → TV → VIDEO → AUDIO → MOT...).

- b. In this order, carefully press [0], [0], [0], [CH+] and [VOL+]. The power / mode buttons illuminate in slow-rotation (i.e. S-A → TV → VIDEO → AUDIO → MOT...).
  - 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.
5. Your remote is equipped with a Point and Press<sup>®</sup> 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. When the batteries become low and need to be replaced, the [S-A], [TV], [VIDEO], [AUDIO], [MOT] buttons will not illuminate normally or at all during use, and the remote will no longer operate your devices.

When this occurs, replace the existing batteries with two (2) new AA Alkaline batteries to restore normal operation to the remote. If your remote still does not operate, you may want to check to see if one of the buttons is stuck in its “down” position.

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

### **Frequently Used Terms**

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

DVR - Digital Video Recorder.

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

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

Fast-Rotation - The power / mode buttons will illuminate in a fast sequence (i.e. S-A → TV → VIDEO → AUDIO → MOT...) repeated every 1/3 second. Fast-rotation occurs when the remote is receiving keypresses to program it to your electronic devices.

Mode - The device the remote is set to operate (ex. S-A, TV, VIDEO, AUDIO, MOT)

PIP – Picture-in-picture functionality through your digital Cable set-top terminal.

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

Slow-Rotation - The power / mode buttons illuminate in a slow sequence (i.e. S-A → TV → VIDEO → AUDIO → MOT...) 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.

TV Output Channel - The channel your TV 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.

Transport Functions - 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.

VIDEO Devices - VCR or DVD players.

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## 12. 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 your Scientific-Atlanta Explorer® 8000 and Motorola DCT 6xxx series Digital / DVR terminals.

