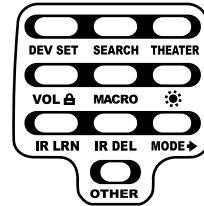5.   To save the macro, press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear again.

6.   Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

7.   Now, if you aim the remote control at the devices selected in step 4 and press the programmed **Macro Key** once, the TV turns on and tunes to channel 3. Then the Cable Box turns on and tunes to channel 071.

### PROGRAMMING A MASTER POWER MACRO IN THE HOME THEATER MODE

A macro can be programmed onto the **POWER** key to turn on or off as many as seven Home Theater devices.

NOTE: *This following example assumes the Home Theater system contains a Satellite Receiver, a DVD Player, an Audio Receiver, and a TV.*

1.   Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly.

2.   Press **MACRO** once.The *Macro* programming screen appears:
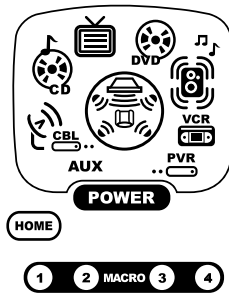
3.   Press **POWER** once.The last-selected device menu screen, including **HOME**, appears.

4.   Enter the macro sequence. For this example, press **CBL/SAT** once, followed by **POWER** once. Next, press **DVD** once, followed by **POWER** once.Then press **AUDIO** once, followed by **POWER** once. Finally, press **TV** once, followed by **POWER** once.

5.   To save the power macro, press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear again.

6.   Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

7.   To test the power macro, first make sure all home theater devices selected in step 4 are turned on. Aim the remote control at the devices

ONE FOR ALL KAMELEON 8-DEVICE REMOTE WITH RF

and press the **Home Theater** key once, followed by **POWER** once.The devices should turn off in this order: Satellite Receiver, DVD Player, Audio Receiver, and TV.
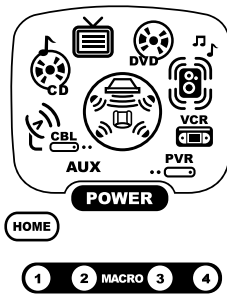
To turn on the devices on again in the same order as above, press **POWER** once.

CLEARING A MACRO

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly.
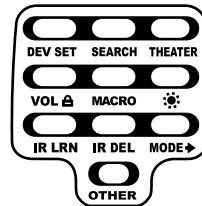
2. Press **MACRO** once.The *Macro* programming screen appears:

3. Select the **Macro Key** to be cleared and press it once.The last-selected device menu screen appears.

4. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear again.

5. To exit programming, press **HOME** once.The display returns to the last-selected device menu screen.

USING LEARNING

The OFA Kameleon 8-Device Remote with RF includes a *Learning* feature so you can add functions that are unique to your home entertainment devices (e.g.,VCR Tracking Up or Down).However, there are some considerations:

LEARNING PRECAUTIONS

• Your original remote controls must be in working order for learning to work properly.

• Learned keys are mode specific, so each one can store a unique function for each mode.

• Learned keys can be used in macros (see *Using Macros* on page 30).

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- Do not use the following keys for learning: **Device Keys, M1~M4, SETUP, FAV, SCROLL, PRESET, PVR VOD**, or **Record (●) Key**.

- Learning capacity is approximately 16 to 25 keys, depending on the code being learned.

- If both learned and keymoved functions are assigned to the same key, the last programmed function is stored.

- A learned function cannot be used as a source for Keymover (see *Using Keymover* on page 38).

- Certain device codes are not learnable including multi-frequency types, some high frequency ones, and other unusual formats.

- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.

NOTE: . *Please have your original remote controls handy before programming learning. Be sure to press each teaching key within 5 seconds of the previous entry. Otherwise, the OFA Kameleon 8-Device Remote with RF exits programming mode.*

PROGRAMMING A LEARNING KEY

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly.
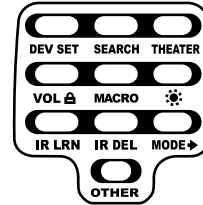
2. Press **IR LRN** once. The *IR Learn* programming screen appears:
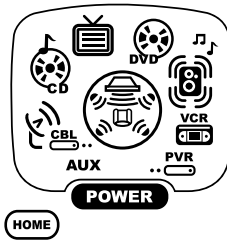
3. Press a device key once (i.e., **AUX, CBL/SAT, CD, TV, DVD, AUDIO, VCR**, or **PVR**) to assign a mode for learning. The selected device menu screen, including **HOME**, appears.

4. Place the OFA Kameleon 8-Device Remote with RF head-to-head (about 2" apart) from your original remote control. Also locate the key (on your original remote control) that will serve as the teaching function.
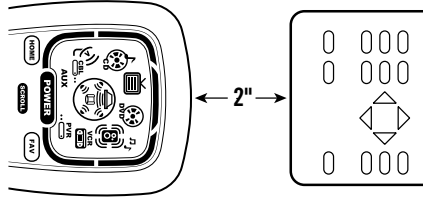
5. On the OFA Kameleon 8-Device Remote with RF, select and press a key where the learned function will be stored.The IR segments display an incoming animation, continue for three revolutions, and then the entire display turns off.

After the display is off, press and hold the teaching key (on your original remote control) until the display (on the OFA Kameleon 8-Device Remote) turns on again.The two bottom IR segments flash twice when the code is successfully captured.

NOTE: If the two bottom IR segments display one long flash, a learning error has occurred.Try repeating this step again until a successful capture occurs. If the function is still not captured, press HOME twice to exit programming and review the "Learning Precautions" on the previous page. If needed, also see "Troubleshooting" on page 57.After review, start programming again at step 1.

6. To learn other functions, repeat steps 3 through 5 as desired.

7. To exit programming, press **HOME** twice. The display returns to the last-selected device menu screen.
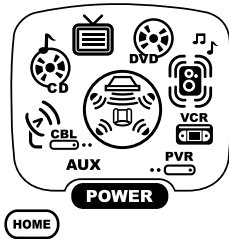
DELETING A SINGLE LEARNING KEY

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly.
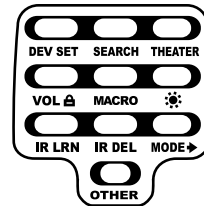
2. Press **IR DEL** once.The *IR Delete* programming screen appears:

3. Press a device key once (i.e., **AUX, CBL/ SAT, CD, TV, DVD, AUDIO, VCR**, or **PVR**) for the mode where the learned key to be deleted resides. The selected device menu screen, including **HOME**, appears.

4. Press the learned key to be deleted twice. Upon deletion, the two bottom IR segments flash twice as confirmation. The **Program Keys** appear again.

6. If desired, repeat steps 2 through 4 to delete another learned key.

7. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

DELETING ALL LEARNED KEYS IN A SPECIFIC MODE.

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly

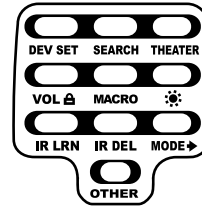2. Press **IR DEL** once.The *IR Delete* programming screen appears:

3. Press a device key once (i.e.,**AUX, CBL/ SAT,CD, TV,DVD, AUDIO, VCR, or PVR**) for the mode where the learned keys to be deleted reside. The selected device menu screen, including **HOME**, appears.

4. Press the same device key (as in step 3) once. Upon deletion, the two bottom IR segments flash twice as confirmation.The **Program Keys** appear again.
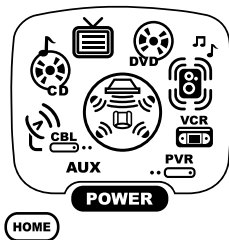
5. If desired, repeat steps 2 through 4 to delete other learned keys from another mode.

6. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

# ONE FOR ALL KAMELEON 8-DEVICE REMOTE WITH RF

REASSIGNING DEVICE KEYS

The OFA Kameleon 8-Device Remote with RF can be set to control a second device. For example, to control a TV, a cable box, and *two* DVD players, you can reassign the unused **AUX** key to operate the second DVD player as follows:

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly
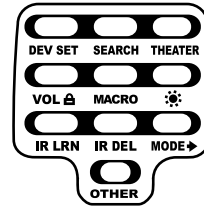
2. Press **MODE** once. The *Mode Mover* programming screen appears:
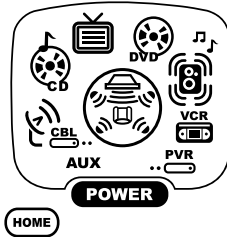
3. For the source mode, press a device key once (i.e., **AUX, CBL/SAT, CD, TV, DVD, AUDIO, VCR**, or **PVR**). For this example, press **DVD** once. The selected device menu screen, including **HOME**, appears.

   NOTE: Only one device can be assigned to an unused device key at a time.

4. For the destination mode, press a device key once (i.e., **AUX, CBL/SAT, CD, TV, DVD, AUDIO, VCR**, or **PVR**). For this example, press **AUX** once. Upon reassignment, the two bottom IR segments flash twice as confirmation. The **Program Keys** appear again.

5. For this example, the **AUX** key is now ready to be set up to control your second DVD player. See *Programming Device Control* on page 15. If desired, repeat steps 2 to 4 to reassign another device.

6. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

USING KEYMOVER

The OFA Kameleon 8-Device Remote with RF includes a *Keymover* feature that allows you to map (or copy) keys from one mode (i.e., source mode) to another mode (i.e., destination mode).

*NOTE: Do not use any of the Device Keys as a source or destination key. Also, do not use **POWER** as a destination key.*
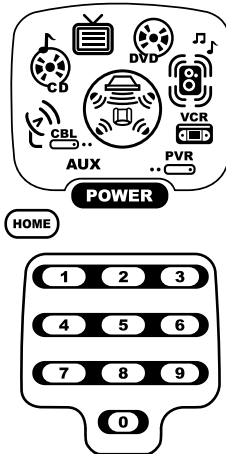
USER'S GUIDE

PROGRAMMING KEYMOVER

For example, if your DVD player does not have volume control, you can map those keys (i.e., **VOL▲, VOL▼**, and **MUTE**) from the TV mode to DVD mode:

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly
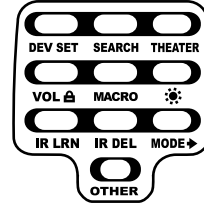
2. Press **OTHER** once. The *Other* programming screen appears:

    3. Using the **Number Keys**, enter **9 9 4**. The two bottom IR segments flash twice.

    4. For the source mode, press a device key once (i.e., **AUX, CD,** etc). For this example, press **TV** once. The source device menu screen, including **HOME**, appears.

    5. For the source key, press a key to be moved once. For this example press **VOL▲** once.

    6. For the destination mode, press a device key once (i.e., **AUX, CBL/SAT, CD, TV, DVD, AUDIO, VCR**, or **PVR**). For this example, press **DVD** once. The selected destination device menu screen, including **HOME**, appears.

7. For the destination key, press a key to be moved once. For this example press **VOL▲**   once.Upon keymoving, the two bottom IR segments flash twice as confirmation. The **Program Keys** appear again.

8. Repeat steps 2 through 7 two more times to map the remaining volume control keys, substituting **VOL▼** and **MUTE** as source and destination keys in steps 5 and 7.

9. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

You can now use your OFA Kameleon 8-Device Remote with RF to control the TV's volume and mute in the DVD mode, as well as in the TV mode.

ONE KAMELEON 8-DEVICE REMOTE WITH RF

RESTORING A SINGLE KEYMOVED KEY

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly
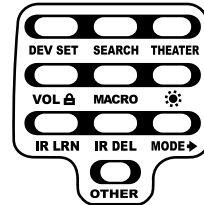
2. Press the destination mode once where the keymoved key is stored. Then press **OTHER** once. The *Other* programming screen appears:
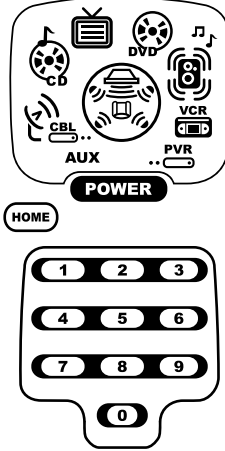
3. Using the **Number Keys**, enter **9 9 4**.The two bottom IR segments flash twice.

4. Press the destination mode once where the keymoved key is stored.Then press the destination key twice.Upon key restoration, the two bottom IR segments flash twice as confirmation.The **Program Keys** appear again.

5. If desired, repeat steps 1 and 2 to restore another key.

6. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

RESTORING ALL KEYMOVED KEYS IN A SINGLE MODE

1. Perform steps 1 through 3 of *Programming Keymover,* above.

2. Press the destination mode twice where the keymoved keys are stored. Upon key restoration, the two bottom IR segments flash twice as confirmation. The **Program Keys** appear again.

3. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

USING CHANNEL SCAN

In the **AUX, CBL/SAT,** or **TV** mode, use the **FAV** key to start a 3-second scan of all channels. If programmed, use the **FAV** key to scan only your favorite channels to view a channel (see *Programming Favorite Channel Scan* below).

1. Press **AUX, CBL/SAT**, or **TV** once. The two bottom IR segments flash once.

2. Press **FAV** once. The IR segments display outgoing animation as each channel is changed.

    •   If *Favorite Channel Scan* has been set up, scanning of favorite channels starts and cycles through stored channels for 3 minutes or until stopped by pressing any key.

    •   If *Favorite Channel Scan* has not been set up, scanning starts with the current channel, then proceeds to the next channel up and cycles through all channels for 3 minutes or until stopped by pressing any key.

3. To stop scanning channels at any time, press any key once.

PROGRAMMING FAVORITE CHANNEL SCAN

In the **AUX, CBL/SAT,** or **TV** mode, you can store a list of up to 10 favorite channels, in any order, that are immediately scanned when **FAV** is pressed (see *Using Channel Scan* above).

NOTE: . *Favorite channels can only be programmed for one mode. After programming, if* **FAV** *is pressed while in another mode, the remote control starts a normal channel scan instead (if applicable to the selected device).*

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly
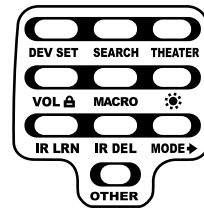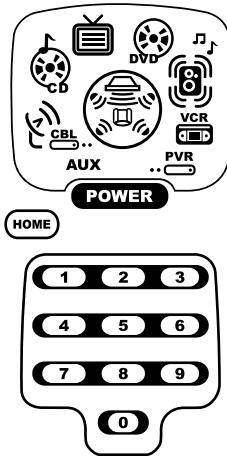

2. Select a *Favorite Channel Mode* by pressing **AUX, CBL/SAT**, or **TV** once. The two bottom IR segments flash once as the selected device key animates.

KAMELEON 8-DEVICE REMOTE WITH RF

3. Press **OTHER** once.The *Other* programming screen appears:

4. Using the **Number Keys**, enter **9 9 6.** The two bottom IR segments flash twice and display the *Favorite Channel* programming screen.

    NOTE: If the two bottom IR segments display one long flash, an error has occurred. Try repeating this step.

5. Using the **Number Keys**, enter a favorite channel number (e.g., **0 1 2**). Then press **SETUP** once.The two bottom IR segments flash three times confirming your entry.

*NOTE: If the original remote control required pressing an **Enter** key to change the channel, also press the **ENTER** key after the channel number (e.g., **0 1 2 ENTER**).*

6. If desired, repeat step 5 for each channel to be stored, up to a total of 10 channels.

    *NOTE: After storing 10 channels, the remote control exits the Favorite Channel programming screen and again displays the **Program Keys**.*

7. To exit programming with fewer than 10 favorite channels stored, press and hold **SETUP** until the two bottom IR segments flash twice and then press **HOME** once.The display returns to the last-selected device menu screen.

RESTORING FACTORY DEFAULT SETTINGS

The OFA Kameleon 8-Device Remote with RF includes an *Setup Code Reset* program.You can use it to restore all your programmed codes to factory settings and delete all custom programming.

IMPORTANT: Executing this program erases all code settings and all custom settings for Home Theater, Macros, Learned Keys, Reassigned Device Keys, Keymoved Keys, Favorite Channels, and all device settings.

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly
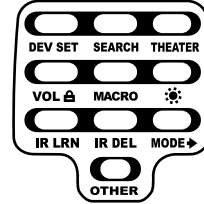
2. Press **OTHER** once. The *Other* programming screen appears:
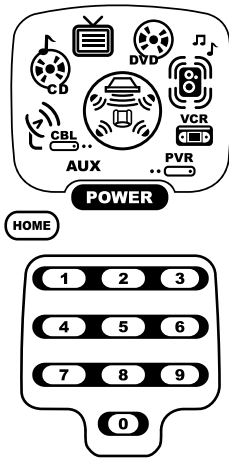
3. Using the **Number Keys**, enter **9 7 7**. The two bottom IR segments flash twice pause and flash twice again to confirm the unit has been restored to factory default settings.

4. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

CLEARING ALL CUSTOM PROGRAMMING

The OFA Kameleon 8-Device Remote with RF contains a *Custom Programming Reset* program. You can use it to remove all custom programming, except your setup codes and reassigned device keys.

IMPORTANT: Executing this program erases all custom settings for Home Theater, Macros, Learned Keys, Keymoved Keys, and Favorite Channels.

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear as **SETUP** flashes repeatedly

ONE FOR ALL KAMELEON 8-DEVICE REMOTE

2. Press **OTHER** once.The *Other* programming screen appears:
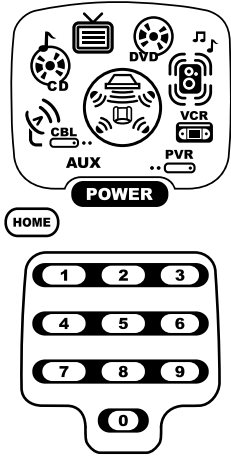
3. Using the **Number Keys**, enter **9 8 0**.The two bottom IR segments flash twice pause and flash twice again to confirm the unit has been restored to factory default settings.

4. Exit programming by pressing **HOME** once. The display returns to the last-selected device menu screen.

MANUFACTURER'S CODES

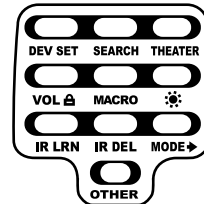### SETUP CODES FOR AUDIO AMPLIFIERS

GE	0078
JVC	0331
Optimus	0395
Realistic	0395
Soundesign	0078
Victor	0331
Wards	0078
Yamaha	0354

SETUP CODES FOR AUDIO RECEIVERS

ADC	0531
Aiwa	0158, 0189, 1388, 0121, 1089
Alco	1390
Anam	1609
Apex Digital	1257
Audiotronic	1189
Audiovox	1390
Bose	1229
Capetronic	0531
Carver	1189, 0189, 1089
Coby	1263, 1389
Curtis	1263
Denon	1360
Fisher	1409
Glory Horse	1263
Harman/Kardon	0110, 0189
Integra	1298, 0135
JBL	0110, 1306
JVC	0074, 1263, 1374
Kenwood	1313, 1570, 1569, 1027, 0186
KLH	1390
Koss	1366
Linn	0189
Magnavox	1189, 1269, 0189, 1089, 0531

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Marantz	1189, 1269, 0039, 0189, 1089
MCS	0039
Musicmagic	1089
Norcent	1389
Onkyo	1298, 0842, 0135
Optimus	1023, 0670, 0531, 0186, 0797
Oritron	1380, 1366
Panasonic	1518, 0039
Philips	1189, 1269, 0189, 1089
Pioneer	1023, 0531, 1384, 0150, 0014, 0630
Polk Audio	0189
Proscan	1254
Quasar	0039
RadioShack	1263
RCA	1023, 1609, 1254, 0531, 1390
Samsung	1295
Sansui	0189, 1089
Sharp	0186
Sharper Image	1416, 1549, 1385, 1411, 1546, 1723, 1263, 1410,1545, 1556, 0797, 1409
Sony	1058, 1258, 0158, 1758, 1158, 1658, 1558
Soundesign	0670
Stereophonics	1023
Sunfire	1313
Teac	1390
Technics	1308, 1518, 0039
Thorens	1189
Venturer	1390
Victor	0074
Wards	0158, 0189, 0014
Yamaha	0176, 1176, 0186, 1375

SETUP CODES FOR CABLE BOXES

ABC	0003, 0008, 0014
Americast	0899
Bell & Howell	0014
Bell South	0899
Director	0476
General Instrument	0476, 0276, 0003
GoldStar	0144
Hamlin	0009, 0273
Jerrold	0476, 0276, 0003, 0014
Memorex	0000
Motorola	0476, 0276
Pace	0237
Panasonic	0000, 0107
Paragon	0000
Philips	0305, 0317
Pioneer	0877, 1877, 0144, 0533
Pulsar	0000
Quasar	0000
Regal	0279, 0273
Runco	0000
Samsung	0144
Scientific Atlanta	0877, 1877, 0477, 0008
Sony	1006
Starcom	0003
Supercable	0276
Torx	0003
Toshiba	0000
Zenith	0000, 0525, 0899

SETUP CODES FOR CD PLAYERS

Aiwa	0157
Burmester	0420
California Audio Labs	0029
Carver	0157
Denon	0873
DKK	0000
DMX Electronics	0157
Garrard	0420

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Genexxa	0032
Harman/Kardon	0157
Hitachi	0032
JVC	0072
Kenwood	0681, 0626, 0028
KLH	1318
Krell	0157
Linn	0157
Magnavox	0157
Marantz	0626, 0029, 0157
MCS	0029
Miro	0000
Mission	0157
MTC	0420
NSM	0157
Onkyo	0868
Optimus	1063, 0000, 0032, 0420
Panasonic	0029
Parasound	0420
Philips	0626, 0157
Pioneer	1063, 1062, 0032
Polk Audio	0157
Proton	0157
QED	0157
Quad	0157
Quasar	0029
RCA	1062, 0032, 0420
Realistic	0420
Rotel	0157, 0420
SAE	0157
Sansui	0157
Sharp	0861
Sonic Frontiers	0157
Sony	0490, 0000, 0100
TAG McLaren	0157
Tascam	0420
TDK	1208
Teac	0420
Technics	0029
Victor	0072
Wards	0157

Yamaha	0888, 0036, 1292
Zonda	0157

SETUP CODES FOR DVD PLAYERS

Aiwa	0641
Allegro	0869
AMW	0872
Apex Digital	0672, 0717, 0755, 0796, 1100, 0795, 0830, 0794,0797
Blaupunkt	0717
Blue Parade	0571
Broksonic	0868, 0695
CineVision	0876, 0869
Daewoo	0784
Denon	0490, 0634
DVD2000	0521
Emerson	0591, 0821, 0675
Enterprise	0591
Fisher	0670
Funai	0675
GE	0522, 0815, 0717
Go Video	0744, 0715, 0783
Greenhill	0717
Harman/Kardon	0702, 0582
Hitachi	0573, 0664
Hiteker	0672
Initial	0717
Integra	0627
JBL	0702
JVC	0558, 0623, 0867
Kenwood	0490, 0534, 0682
KLH	0717
Koss	0651
Lasonic	0798
Magnavox	0503, 0675
Marantz	0539
Memorex	0695
Microsoft	0522
Mintek	0717
Mitsubishi	1521, 0521
Nesa	0717

Manufacturer's Codes

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Norcent	0872
Onkyo	0503, 0627
Oritron	0651
Panasonic	0490, 0632, 1490, 1462, 1362, 1762
Philips	0503, 0539, 0646, 0854
Pioneer	0525, 0571, 0632
Polk Audio	0539
Proscan	0522
Qwestar	0651
RCA	0522, 0571, 0717, 0822
Rio	0869
Rotel	0623
Sampo	0698
Samsung	0490, 0573, 0820
Sansui	0695
Sanyo	0873, 0695, 0670
Sharp	0630, 0752
Sharper Image	1117, 1112, 1995
Sherwood	0633
Shinsonic	0533
Sonic Blue	0869
Sony	0533, 0864
Sylvania	0821, 0675
Symphonic	0675
Technics	0490
Theta Digital	0571
Toshiba	0503, 0695, 1045
Tredex	0799
Urban Concepts	0503
Xbox	0522
Yamaha	0490, 0539, 0545, 0817
Zenith	0503, 0591, 0869

SETUP CODES FOR DVD PLAYER/ PVR COMBOS

Panasonic	0490
RCA	0522

SETUP CODES FOR DVD PLAYER/ VCR COMBOS (DVD CODES)

Allegro	0869
CineVision	0869
Go Video	0744, 0715
Hitachi	0664
JVC	0867
Memorex	0695
Panasonic	1762
RCA	0822
Samsung	0820
Sansui	0695
Sanyo	0873
Sharp	0630
Sony	0864
Sylvania	0675
Symphonic	0675
Toshiba	0503
Zenith	0869

SETUP CODES FOR DVD PLAYER/ VCR COMBOS (VCR CODES)

Hitachi	0000
RCA	0060
Sanyo	0104
Sharp	0848
Sylvania	0000
Symphonic	0000

SETUP CODES FOR HOME AUTOMATION

GE	0240
Lasko	0846
One For All	0167
RadioShack	0240
Security System	0167
Sharper Image	0846
Universal X10	0167
X10	0167

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