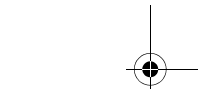
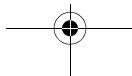
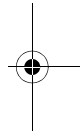
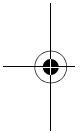
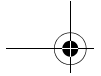




## OFA Kameleon™ 6-Device Hybrid Remote (URC-6690)



### User's Guide



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## OFA Kameleon™ 6-Device Hybrid Remote

### INTRODUCTION

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) is an advanced 6-device universal remote control. It offers the perfect combination of exclusive touchscreen technology with classic hard button familiarity. This allows you to easily operate up to 6 different home entertainment devices with the functionality and flexibility to support novice as well as advanced users.

Advanced features include:

- **Kameleon Technology** – dynamic menu screens that respond to device selection and illuminate only active keys
- **Hard Button Functionality** – Hard buttons complement the Kameleon screen for the most comprehensive functionality across a vast range of devices.
- **Macros** – for instant activation of favorite key sequences
- **Learning** – to capture unique functions from your devices' original remote controls
- **Key Mover** – for copying keys from one device to another, or to a different position in the same mode
- **Direct Code Setup** – for easy device programming with setup codes
- **Innovative Code Search** – allows setup of your devices without looking up codes
- **Favorite Channel Scan** – for easy channel surfing of favorite channels
- **Volume Lock** – to assign volume controls to individual devices or to one global device
- **Extensive Code Library** – largest and most efficient group of IR remote control codes for virtually every current brand and make
- **Upgradeability** – Customer support upgrade system ensures your remote control always has the latest setup codes when adding new devices in the future

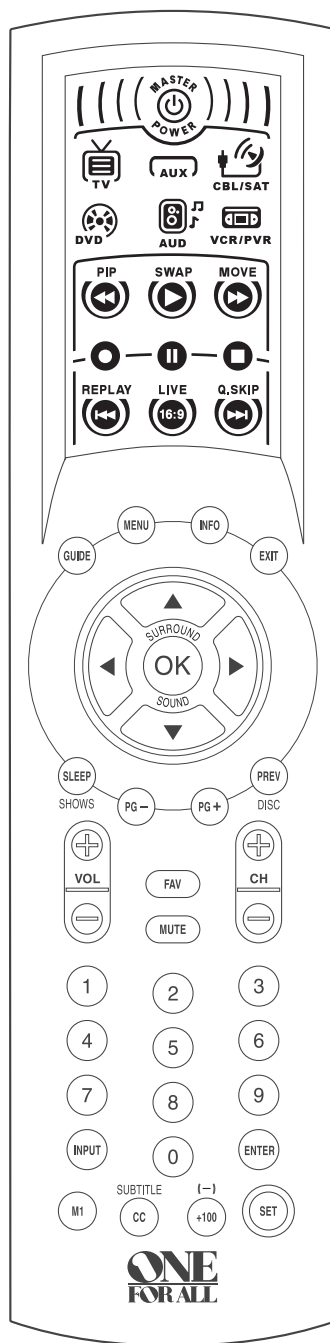
After installing two (2) new AA alkaline batteries (not included), you can immediately use the unit to control a Sony TV, an RCA DirectTV receiver, a Sony DVD player, a Pioneer Audio Receiver, a Sony Tivo PVR (**VCR/PVR** key), and a Pioneer CD player (**AUX** Key). To control other brands than the default ones, see Programming Device Control on page 8.

## OWNER'S MANUAL

## FEATURES AND FUNCTIONS

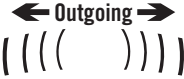








Use the illustration to the right to locate features on the OFA Kameleon 6-Device Hybrid Remote (URC-6690) and then refer to the Key Charts (starting on page 4) to learn how they function.








**NOTE:** The illustration shows all remote control keys in the screens. In actual operation, only active keys used by the selected device are displayed and non-active keys are hidden. To find out what type of devices can be controlled by each device key after programming, see the Device Table on page 6.







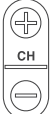







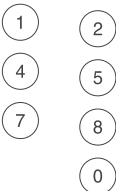









## OFA Kameleon™ 6-Device Hybrid Remote

### KEY CHARTS








Key	Function
 	<p>When a key is pressed, the IR Segments animate. Outgoing animation (see arrows) indicates the remote control is sending IR signals to a selected device.</p> <p>Incoming animation (see arrows) indicates the remote control is receiving IR signals from a device being learned (see Using Learning on page 13)</p> <p>The inner IR segments flash to display success or error message during programming of remote features.</p>
     	<p>Press <b>TV, AUX, CBL/SAT, DVD, AUD</b> or <b>VCR/PVR</b> once to select a desired home entertainment device to control. When selected, the Device Key becomes brighter than the other device keys to indicate it is currently active. Also see the Device Table on page 6</p>
	<p>Press <b>MASTER POWER</b> once to turn on or off the selected device. For master power control, see Programming a Master Power Macro on page 11.</p>

Key	Function
	Press <b>MENU</b> once to display your selected device's main menu.
	Use <b>GUIDE</b> to display your selected device's program guide or setup menu.
	Use <b>EXIT</b> to exit from your selected device's guide or menu.
	Use <b>INFO</b> to display the current channel and program information.
	<p>Use the cursor keys to move the cursor in the program guide and menu screens.</p> <p>Use <b>OK</b> to choose options from your selected device's menu or guide.</p> <p>In the <b>AUD</b> mode, use <b>OK</b> to set the surround sound. Use <b>Up</b> (or <b>Down</b>) to adjust the volume higher (or lower). Use <b>Left</b> (or <b>Right</b>) to adjust the balance left (or right).</p>
	Use <b>VOL+</b> (or <b>VOL-</b> ) to raise (or lower) the sound volume.
	Press <b>MUTE</b> once to turn the sound off or on.

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Key	Function	Key	Function
	In <b>TV</b> , <b>VCR/PVR</b> , <b>DVD</b> or <b>CBL/SAT</b> modes, use <b>FAV</b> to scan favorite channels and/or all channels. (See Using Channel Scan and Programming Favorite Channel Scan on page 13)	  	In the <b>AUX</b> , <b>AUD</b> and <b>DVD</b> modes, the Kameleon screen displays the transport keys to control your DVD, Home Theater in a box system or CD player.
	Use <b>CH+</b> (or <b>CH-</b> ) to select the next higher (or lower) channel.	  	In the <b>CBL/SAT</b> and <b>VCR/PVR</b> modes, the Kameleon screen displays the transport keys to control your VCR functions. If a PVR/DVR device is programmed onto the <b>CBL/SAT</b> or <b>VCR/PVR</b> modes, you can control PVR/DVR functions such as <b>REPLAY</b> , <b>LIVE</b> (Return to Live) or <b>Q.SKIP</b> (Quick Skip).
	Press <b>PREV</b> once to recall the last-viewed channel and to page back one screen on the main menu. In the <b>AUD</b> , <b>DVD</b> and <b>AUX</b> modes, use <b>DISC</b> to change disk (if available on your device).	  	
	Use the keypad ( <b>1 - 9</b> and <b>0</b> ) to directly select channels (for example, <b>009</b> or <b>031</b> ). In the <b>AUD</b> mode, use the keypad ( <b>1 - 9</b> and <b>0</b> ) to select audio sources 1 through 10.	  	In the <b>TV</b> mode, the Kameleon screen displays the PIP (picture-in-picture) controls <b>PIP</b> , <b>SWAP</b> and <b>MOVE</b> , to control your TV's PIP functions. Also, the <b>16:9</b> Key to control the aspect Ratio of the TV. Use the <b>Skip back</b> and <b>Skip forward</b> keys, to control the Channel up/down for the PIP Box.
	Press <b>ENTER</b> once after entering the channel numbers on some TVs.	  	
	Use <b>INPUT</b> to switch the TV's input to view TV or video programs.		To record to a DVD or VCR program, press <b>REC</b> .

## OFA Kameleon™ 6-Device Hybrid Remote

Key	Function
	After programming, press the <b>M1</b> key once to run a desired macro (see Using Macros on page 11).
	Press <b>SLEEP</b> to activate your device's sleep timer (not available for all devices). If you have a PVR device, use <b>SHOWS</b> to access your list of recorded shows.
	Use <b>CC</b> to turn on closed caption or subtitles.
	Use <b>+100</b> if your device requires this key to access channels greater than 100 (same as your original device). Use the <b>(-)</b> function to access your High Definition Channels (e.g., if your HD channel is 2.5, press <b>2 (-) 5</b> ).
 	Use <b>PG+</b> and <b>PG-</b> to change the page in you Cable or Satellite device's guide. In DVD mode, use <b>PG+</b> and <b>PG-</b> to change disks in a multi disk system
	Use <b>SET</b> for all programming sequences.

### DEVICE TABLE

**NOTE:** Please refer to the table below when performing the instructions in Programming Device Control on page 8.

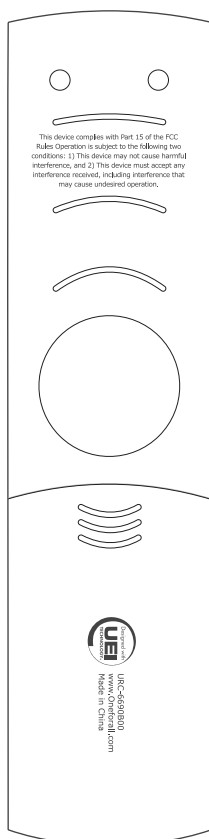
After programming, the OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) will be able to control the following types of devices:

Device Key	Controls These Devices
<b>TV</b>	TV (including HDTV, Plasma and LCD), TV/DVD Combo (Listed as TV Codes), TV/VCR Combo (Listed as TV Codes).
<b>CBL/SAT</b>	Satellite, Satellite/PVR, Cable, Cable/DVR, HDTV Decoder, Video Accessories
<b>VCR/PVR</b>	VCR, TV/VCR, Stand Alone PVR
<b>DVD</b>	DVD, DVD/R, DVD/VCR, TV/DVD/VCR, HTIB (Home Theater In A Box)
<b>AUD</b>	Tuner, Amp, CD Misc. Audio, HTIB (Home Theater In A Box)
<b>AUX</b>	Tuner, Amp, CD Misc. Audio, HTIB (Home Theater In A Box)

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### INSTALLING THE BATTERIES

1. On the remote control's back, push down on the top of the battery cover (where indicated by the arrows). Then slide the battery cover out.



2. Obtain two (2) new AA alkaline batteries. Match the + and - marks on the batteries to the + and - marks in the battery case, then insert the new batteries.
3. Slide the battery cover back into place. The tab should click when the cover is locked.

4. If batteries are inserted correctly, the Kameleon display will turn on when a key is pressed. Test the remote control by pressing **POWER** and observing the IR Animation.

**NOTE:** When batteries are low, the Inner IR segments will blink 5 times after each key press. The remote will stop operating when the batteries need replacement. The permanent memory retention ensures that your codes are stored permanently even during battery replacement.

### BEFORE USING THE REMOTE

By design, the first key press will always make the screen turn on but will not cause the remote to take any action until a key is pressed after the screen is on.

Keep this in mind when programming the features of your OFA Kameleon™ 6 Device Hybrid Remote.

### ADJUSTING THE DISPLAY

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) has several ways to adjust the display for your comfort and best use.

#### ADJUSTING BRIGHTNESS

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) has five levels of brightness adjustment and is set to the middle setting at the factory. To increase or decrease the brightness, perform the following steps:

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.

## OFA Kameleon™ 6-Device Hybrid Remote

**NOTE:** If the display turns off because of inactivity, you must start the programming sequence again by repeating this step.

2. Press **9 7 4** (Inner IR segments blinks twice).
3. Press **Arrow Up** key to increase the screen brightness (to decrease brightness press **Arrow Down** key).
4. Press and release the **SET** key to lock in the desired brightness. The remote will exit the programming mode.

### ADJUSTING HOW LONG THE SCREEN LIGHT IS ON

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) allows you to control how long the screen light remains on after the last button is pressed. The display-on time is set at the factory to run for about 8 seconds. To increase or decrease that time, perform the following steps:

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.

**NOTE:** If the display turns off because of inactivity, you must start the programming sequence again by repeating this step.

2. Press **9 7 8** (Inner IR segments blinks twice).
3. Use the following table to choose the “light on” time:

Press...	...to set the light for
1	4 seconds
2	8 seconds
3	12 seconds

Press...	...to set the light for
4	16 seconds
5	20 seconds

4. The Kameleon display’s “On” time is now programmed for the selected time (in step 3).

## PROGRAMMING DEVICE CONTROL

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) is preprogrammed at the factory to control a Sony TV, an RCA DirecTV receiver, a Sony DVD player, a Pioneer Audio Receiver, a Sony Tivo PVR (**VCR/PVR** key), and a Pioneer CD player (**AUX** Key). To control devices other than the default brands, perform the following steps; otherwise skip this section:

**NOTE:** For Combo Device control, see the next section.

1. Turn on a device (e.g., TV, VCR or DVD player) and, if applicable, insert media (e.g., cassette or disc).

**NOTE:** Please read steps 2 through 4 completely before proceeding. Highlight or write down the codes and device you wish to program before starting step 2.

2. On the remote control, press a device key once (i.e., **TV, AUX, CBL/SAT, DVD, AUD** or **VCR/PVR**).

**NOTE:** Use the **AUX** key to program control of an audio device such as a CD player, AMP, HTIB (Home theater in a box), or a tuner. Alternately, use the **AUX** key to program control of a second device type (e.g., a second DVD; see Re-assigning Device Keys on page 14).

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3. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
4. Use the Manufacturer's Codes (starting on page 21) to locate the type of device and brand name and then enter the first four-digit code for your device. If performed correctly, the Inner IR segments blink twice.

**NOTE:** If the Inner IR segments did not blink twice, repeat steps 2 through 4 and try entering the same code again.

5. Aim the remote control at the device and press **POWER** once. The device should turn off. If it does not respond, repeat steps 2 through 5, trying each code for your brand until you find one that works. If it still does not work, try Searching For Your Code.

**NOTE:** If the device does not respond to the **POWER** key, press **Vol+** or the **Play** key..

6. Repeat steps 1 through 5 for each device you want to control. For future reference, write down each working device code in the boxes below:

**TV Code:**

**AUX Code:**

**AUX. Device Type:**

**CBL/SAT Code:**

**DVD Code:**

**AUD Code:**

**VCR/PVR Code:**

## PROGRAMMING COMBO DEVICE CONTROL

You can set the OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) to control your combo devices such as TV/VCR, TV/DVD, Satellite/DVR, Home-Theater-In-A-Box, and many others with a single code. For a complete list of combo devices, refer to the "Device Table" on page 6.

**NOTE:** Some combo device types have codes that you can program on separate device keys. For example, you can program DVD Player/VCR Combo codes under the **VCR/PVR** or **DVD** mode keys. See Setup Codes for DVD/VCR Combos on page 28; note that there are two sections under this device type.

Perform the following instructions to control a TV/DVD Combo:

1. Turn on the TV/DVD Combo and insert a DVD.

**NOTE:** Please read steps 2 through 4 completely before proceeding. Highlight or write down the codes and device you wish to program before starting step 2.

2. On the remote control, press **TV**.
3. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
4. Use the Setup Codes under the TV/ DVD Combos heading (use codes listed as "TV Codes") on page 35. Locate the brand name and then enter the first four-digit code for your device. If performed correctly, the Inner IR Segments will blink twice.

## OFA Kameleon™ 6-Device Hybrid Remote

**NOTE:** If the Inner IR segments did not blink twice, repeat steps 2 through 4 and try entering the same code again.

5. Aim the remote control at the device and press **POWER** once (or **PLAY**). It should turn off (or begin playing). If the device does not respond, repeat steps 2 through 5, trying each code for your brand until you find one that works. If it still does not work, try Searching For Your Code.

### SEARCHING FOR YOUR CODE

If your device does not respond to the remote control after trying all codes listed for your brand, or if your brand is not listed at all, try searching for your code.

For example, to search for a code for your TV:

1. Turn on your TV and on the remote control, press **TV** once.
2. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
3. Enter **9 9 1**. The Inner IR Segments will blink twice.
4. Select a test function from the list below or use the default test function (Power) and skip step 4

**NOTE:** Use any of the following keys for the test function: **0, 1, 2, 3, Power, Volume Up, Play, Stop or Mute**.

5. Press the **^ (Arrow Up)** key to begin searching for your code. Stop the search when the device turns off or performs the function selected in step 4 (if other than **Power**).

**NOTE:** In the search mode, the remote control will send IR codes from its library to the selected device, starting with the most popular code first. Every press of the **^ (Arrow Up)** key will send a new code. If you go past the code that performed the Test Function (selected in step 4), you can go back by pressing the **v (Arrow Down)** key.

6. To lock in the code, press and release the **SET** key. The Inner IR Segments blinks twice.
7. To search for the codes of your other devices, repeat steps 1 through 6, but substitute the appropriate device key for the device you are searching for, in step 1.

### CHECKING THE CODES

If you have set up the remote control using the Searching For Your Code procedure, you may need to find out which four-digit code is operating your equipment. For example, to find out which code is operating your TV:

1. On the remote control, press **TV** once.
2. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
3. Enter **9 9 0**. The Inner IR Segments will blink twice.
4. To view the code for the first digit, press **1** once. Wait 3 seconds, count the LED blinks (e.g., three blinks = 3) and write down the number.

**NOTE:** If a code digit is "0", the LED will not blink.

## OWNER'S MANUAL

5. Repeat step 4 three more times for remaining digits. Use **2** for the second digit, **3** for the third digit, and **4** for the fourth digit.
6. To check for codes of other devices, repeat steps 1 through 5, but substitute the appropriate device key for each device you are checking.
2. Enter **9 9 5**. The Inner IR segments will blink twice.
3. Select an open macro key (e.g., **M1**) and press it once.
4. Press **CBL** once.
5. Enter the channel number, **5 2**.

**NOTE:** If you have access to over 100 channels, enter **0 5 2**. Also, if the original remote control required pressing **Enter** to change the channel, also press **Enter** after the channel number (e.g., **0 5 2 Enter**).

**NOTE:** You can program up to 15 keypresses on each macro key.

6. Press and hold **SET** until the Inner IR segments blinks twice, then release **SET**.

Now when you press **M1**, you will instantly see cable channel 52 on your TV set.

## USING MACROS

With programming, the **M1** and **POWER** keys on your OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) can be setup to perform repetitive, time-consuming operations for easy, convenient access through the press of a single key. Macro keys are ideal for home theater operations, setting a favorite channel, guide steps, or other multiple functions you would like to control with one key press. Moreover, each macro key can hold up to 15 key presses total.

**NOTE:** Programming a new macro over an existing one will erase the original macro.

### PROGRAMMING A FAVORITE CHANNEL

With so many channels available through your cable or satellite system provider, you can program a macro that directly selects a favorite channel with one key press. For example, let's assume your favorite cable programs are on channel 52. Use the following instructions to program a macro key for direct access of this channel:

**NOTE:** This example assumes the TV is tuned to the correct Input to view your cable box.

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.

### PROGRAMMING A MASTER POWER MACRO

In its default state, the **POWER** key on the OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) will individually power your home entertainment devices on or off. However, you can also program a Master Power Macro onto the **POWER** key that will sequentially turn on or off all the devices with a single key press.

To program the Master Power Macro:

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 9 5**. The Inner IR Animation will blink twice.
3. Press the **POWER** key once.
4. For the first device you want in the power-on sequence, press its device key (e.g., **TV**) once.

## OFA Kameleon™ 6-Device Hybrid Remote

5. For the second device you want in the power-on sequence, press its device key (e.g., **CBL/SAT**) once.
6. For the third device you want in the power-on sequence, press its device key (e.g., **AUD**) once.
7. Repeat step 6 up to three more times to add the other desired devices to the power-on sequence (e.g., **AUX**, **VCR/PVR**, etc.).
8. To save the settings and exit the program, press and hold **SET** until the Inner IR segments blink twice, then release **SET**.

### To Operate Master Power Macro

1. After programming, point the remote control at the devices and press **POWER** for at least 3 seconds to sequentially turn on (or off) your devices.

**NOTE:** When **POWER** is pressed for less than 3 seconds, a power command will only be sent to the currently-selected device. This allows you to still individually power devices on or off.

2. Devices will turn on (or off) according to your programmed sequence.

**NOTE:** The currently-selected device will always turn on or off first, followed by the remaining programmed sequence. After the master power sequence has been completed, the remote control will be set to control the first powered-on device.

**NOTE:** If one or more devices does not have a **POWER** key, the power off/on sequence may be slightly delayed when the remote control signals the device(s). This action is normal.

### CLEARING A MACRO

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 9 5**. The Inner IR Animation will blink twice.
3. Select a macro key (e.g., **M1**, **POWER** or any key programmed with a macro) you want to clear and press it once.
4. Press and hold **SET** until the two Inner IR segments flash twice, then release **SET**. The macro is now deleted but the keys (in the case of power), will retain their original function.

## USING CHANNEL SCAN

In the **TV**, **VCR/PVR**, **DVD** and **CBL/SAT** modes, use the **FAV** key to start a 3-second scan of all favorite channels (if programmed, see Programming Favorite Channel Scan below) and/or all channels for the selected mode.

1. Press **TV**, **VCR/PVR**, **DVD** or **CBL/SAT** once.
2. Press **FAV** once.
  - If Favorite Channel Scan has been set up, scanning of favorite channels will start and, upon completion, continue to scan all channels upward for the same device.
  - If Favorite Channel Scan has not been set up, scanning will start with the current channel, then proceed to the next channel up, and continue until all channels of the selected device is scanned.

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

## PROGRAMMING FAVORITE CHANNEL SCAN

In the **TV**, **VCR/PVR**, **DVD** and **CBL/SAT** modes, you can store a list of up to 10 favorite channels, in any order, that will be immediately scanned when **FAV** is pressed (see Using Channel Scan).

**NOTE:** Only channels of one mode can be stored for Favorite Channel Scan.

1. On the remote control, press **TV**, **VCR/PVR**, **DVD** or **CBL/SAT** once.
2. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
3. Enter **9 9 6**. The Inner IR Animation will blink twice.
4. Use the keypad to enter a favorite channel number (e.g., **0 3 1**). Then press **SET** once.

**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 3 1 Enter**).

5. If desired, repeat step 4 (in this section) for each favorite channel to be stored, up to a total of 10 channels.

**NOTE:** If you try entering more than 10 channels, the remote control will automatically exit programming.

6. To exit programming, press and hold **SET** for 3 seconds. The Inner IR Animation will blink twice.

## USING LEARNING

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) includes a Learning feature so you can add functions that are unique to your home entertainment devices (e.g., DVD EJECT). However, there are some considerations.

### LEARNING PRECAUTIONS

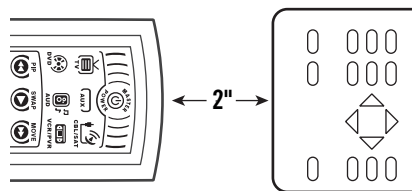
- Your original remote controls must be in working order for learning to work properly.
- Learned keys are mode specific, so each one can store a unique function for each mode.
- Learned keys can be used in macros (see Using Macros on page 11).
- Do not use the following keys for learning: Device Keys, **SETUP**, **FAV**, or **Record** (•) Key.
- Learning capacity is approximately 50 to 70 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 15).
- 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.

## OFA Kameleon™ 6-Device Hybrid Remote

**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™ 6-Device Hybrid Remote (URC-6690) exits the learning mode.

### PROGRAMMING A LEARNING KEY

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 7 5**. The Inner IR Segments will blink twice.
3. Press a device key once (e.g., **TV**) to assign a mode for learning.
4. Press the desired key once (e.g., **+100** Key) to store a feature to be learned. The unit will display the learning animation of the IR segments and will then turn off the screen.
5. Place your original remote control (e.g., TV remote control) head-to-head (about 2" apart) from the OFA Kameleon™ 6-Device Hybrid Remote (URC-6690).



6. On your original remote control, press and hold the key (i.e., feature) to be learned until the display on the OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) turns on and the Inner IR segments blink twice. If the Inner IR segments does not blink twice (shows a long blink), repeat steps 3 through 6.

7. To learn functions onto other learning keys (e.g., **M1**, **PG+**, **PG-**, etc.), repeat steps 3 through 6.
8. To lock in new feature(s) on the OFA Kameleon™ 6-Device Hybrid Remote (URC-6690), press and hold **SET** until the Inner IR segments, then release **SET**.
9. To test a learned feature, press a device key (e.g., **TV**) once where the learning mode was assigned. Then press the learning key (e.g., **+100**) where the learned feature is stored.

### DELETING FUNCTIONS FROM THE LEARNING KEYS:

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 7 6**. The Inner IR Segments will blink twice.
3. Press the device key once where the learned feature is stored (e.g., **TV**).
4. Press the learning key (e.g., **+100**) to be deleted twice. The Inner IR Segments will blink twice after the second press.
5. To clear additional functions stored on other learning keys, repeat steps 1 through 4 (in this section).

## RE-ASSIGNING DEVICE KEYS

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) can be set to control a second TV, VCR, DVD player, or other device. For example, to control a TV, a cable box, and two DVDS, you will need to re-

## OWNER'S MANUAL

assign the unused AUX key to operate the second DVD as follows:

1. On the remote control, press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 9 2**. The Inner IR Segments will blink twice.
3. Press **DVD** once, then press **AUX** once.

The **AUX** key is now ready to be programmed for your second DVD. (See Programming Device Control on page 8.)

To re-assign other device keys to the **AUX** key, repeat steps 1 through 4 above by substituting the sequence from the chart:

To Re-Assign Device Key...	Perform Sequence...
<b>AUX</b> as 2nd <b>TV</b> key:	<b>SET</b> ⇒ <b>9</b> ⇒ <b>9</b> ⇒ <b>2</b> ⇒ <b>TV</b> ⇒ <b>AUX</b>
<b>AUX</b> as 2nd <b>VCR/ PVR</b> key:	<b>SET</b> ⇒ <b>9</b> ⇒ <b>9</b> ⇒ <b>2</b> ⇒ <b>VCR/PVR</b> ⇒ <b>AUX</b>
<b>AUX</b> as 2nd <b>CBL/SAT</b> key:	<b>SET</b> ⇒ <b>9</b> ⇒ <b>9</b> ⇒ <b>2</b> ⇒ <b>CBL/SAT</b> ⇒ <b>AUX</b>
<b>AUX</b> as 2nd <b>AUD</b> key:	<b>SET</b> ⇒ <b>9</b> ⇒ <b>9</b> ⇒ <b>2</b> ⇒ <b>AUD</b> ⇒ <b>AUX</b>

You can also re-assign another unused device key by substituting an open key for the **AUX** key in the above chart and performing the sequence. For example, to re-assign an unused CBL/SAT key as a 2nd TV key, perform **SET**⇒**9**⇒**9**⇒**2**⇒**TV**⇒**CBL/SAT**. When a re-assignment is done, the Inner IR Segments will blink twice to confirm your choice. At that time, you will need to program the remote control for the new device (see Programming Device Control on page 8).

## USING KEYMOVER

OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) 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:** The following keys cannot be used as a source or destination: **TV**, **CBL/SAT**, **VCR/PVR**, **DVD**, **AUD**, **AUX**, **FAV**, and **SET**.

### PROGRAMMING KEYMOVER

For example, if your VCR does not have volume control, you can map the volume and mute keys from the TV mode to the VCR mode as follows:

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 9 4**. The Inner IR Segments will blink twice.
3. For the source mode, press **TV** once.
4. For the source key, press **VOL+** once.
5. For the destination mode, press **VCR/PVR** once.
6. For the destination key, press **VOL +** once.  
IR Segments will blink twice indicating the keymoved sequence is correct.
7. Repeat steps 1 through 7 twice more, substituting **VOL-** and **MUTE** as source and destination keys in steps 4 and 6.

Upon completion of the above procedure, you can now use your OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) to control the TV's volume and mute in the VCR mode, as well as in the TV mode.

## OFA Kameleon™ 6-Device Hybrid Remote

### RESTORING KEYMOVED KEYS TO DEFAULT SETTING

#### Restoring A Single Keymoved Key

1. Press a device (e.g. **VCR/PVR**) key that has a keymoved key.
2. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
3. Enter **9 9 4**. The Inner IR Segments will blink twice.
4. Press the destination key twice (where the keymoved key is stored). The Inner IR Segments will blink twice.

#### Restoring All Keymoved Keys In A Single Mode

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 9 4**. The Inner IR Segments will blink twice.
3. Press the destination mode twice (where keymoved keys are stored). The Inner IR segments flash twice.

## CHANGING VOLUME LOCK

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) is set at the factory for independent volume control of each selected device. However, you may change the Volume Lock setting to Global Volume Lock so that a device's volume will be locked to one mode (e.g., to control TV volume in all other modes). After that, if desired, you can perform Individual Volume Unlock on a selected device to set its volume control for independent operation.

### LOCKING VOLUME CONTROL TO ONE MODE (GLOBAL VOLUME LOCK):

1. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 9 3** and then press any mode key once (e.g., **TV**). The Inner IR Segments will blink twice.

Now, when you press **VOL+**, **VOL-**, or **MUTE**, the volume of the selected device (e.g., **TV**) will be controlled regardless of the mode you have selected.

### UNLOCKING VOLUME CONTROL FOR A SINGLE DEVICE (INDIVIDUAL VOLUME UNLOCK):

1. Press a desired mode key where you want volume to be unlocked (e.g., **AUD**) and controlled within its own mode.
2. Press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
3. Enter **9 9 3** and then press **VOL-** once. The Inner IR Segments will blink four times.
4. If desired, repeat steps 1 through 3 (of this section) for each device that you want volume to be unlocked.

Now, after you select a device that has volume unlocked (e.g., **AUD**), pressing **VOL+**, **VOL-**, or **MUTE**, will control the device's volume only in its own mode.

### UNLOCKING ALL VOLUME CONTROL (RESTORING DEFAULT SETTING):

**NOTE:** Performing these instructions will restore independent volume control for all programmed devices (e.g., TV volume

## OWNER'S MANUAL

control in TV mode, VCR volume in VCR mode, etc.).

1. On the remote control, press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
1. Enter **9 9 3** and then press **VOL+** once. The Inner IR Segments will blink four times.

Volume will again be independently controlled according to its default states for all programmed devices.

## RESTORING FACTORY DEFAULT SETTINGS

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) includes a Setup Code Reset program. You can use it to restore all of your programmed codes to factory settings and delete all custom programming.

**IMPORTANT.** Executing this program erases all code settings and all custom settings including, Macros, Learned Keys, Reassigned Device Keys, Keymoved Keys, Favorite Channels, and all device settings.

1. On the remote control, press and hold **SET** until the two Inner IR segments flash twice. The current mode key will blink on and off during programming.
2. Enter **9 8 1**. The Inner IR Segments will blink four times.

Your remote is now ready for programming.

## ABOUT UPGRADING

The OFA Kameleon™ 6-Device Hybrid Remote (URC-6690) has the largest infrared code library available. However, if you purchase a brand new home entertainment or home automation device, it may not respond to the codes stored in the

remote control's memory. If this happens, please contact our Customer Support department (see Troubleshooting Section below) to upgrade the remote control.

The Customer Support representative will search our entire database for a code that matches your device and instruct you how to enter it into your OFA Kameleon™ 6-Device Hybrid Remote (URC-6690). If the code for your home entertainment or home automation device is not in our database, we will need to "capture" the code for that device from its original remote control. A new code would then be created and entered into your OFA Kameleon™ 6-Device Hybrid Remote (URC-6690). If necessary, the Customer Support representative can instruct you how to begin the capture procedure.

**NOTE:** One For All reserves the right to replace a returned remote control with a new one of equal or superior functionality.

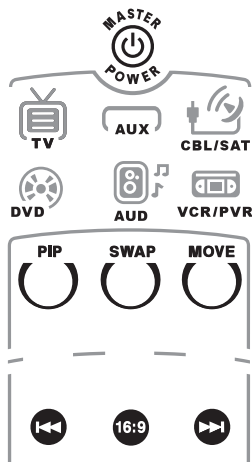
## UPGRADE EXCLUSIONS

- Home entertainment or home automation devices controlled by radio frequency (RF/UHF), wired, or ultrasonic remote controls. Only devices controlled by infrared remote controls are covered.
- Home entertainment or home automation devices not controlled by remote controls.
- Broken or defective product.
- Products that operate over 100 kHz.
- Infrared keyboards and infrared pointing devices (such as mouse substitutes).
- All products for sale and/or use outside the continental United States, Hawaii, Alaska, or Canada.

## OFA Kameleon™ 6-Device Hybrid Remote

### DEVICE SCREENS

#### TV SCREEN



The TV screen displays the **PIP** and **Format** keys. Use these keys to remotely control all your TV's common PIP features. Also use the 16:9 to change the aspect ration of your TV. Use the |<< and the >>| keys to change the channel of the PIP Box.

#### AUX SCREEN



The AUX screen displays the transport keys to allow you to control your CD player or other audio device.

#### CBL/SAT SCREEN



The CBL/SAT screen displays the transport keys to allow you to control the PVR/DVR functions of your CBL/DVR or SAT/PVR device. It also allows you to control the Instant Replay, Return to Live and Quick Skip functions.

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### DVD SCREEN



The DVD screen displays the transport keys to allow you to control your DVD player. The **|<<** and **>>|** keys will also allow you to skip forward or skip back through the DVD Chapters.

### AUD SCREEN



The AUD screen displays the transport keys to allow you to control the DVD functions of a Home Theater In-a-Box device.

### VCR/PVR SCREEN



The VCR/PVR screen displays the transport keys to allow you to control the VCR functions of your VCR player. Also, if you have programmed stand alone PVR device on the VCR/PVR device key, the screen keys will allow you to control the Instant Replay, Return to Live and Quick Skip functions.

## TROUBLESHOOTING

- |                  |                                                                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROBLEM:</b>  | Remote does not enter programming mode or will not send a command to my device.                                                                                    |
| <b>SOLUTION:</b> | By design, the first key press will always make the screen turn on but will not cause the remote to take any action until a key is pressed after the screen is on. |
| <b>PROBLEM:</b>  | Display does not turn on when you press a key.                                                                                                                     |
| <b>SOLUTION:</b> | Replace batteries with two new AA alkaline batteries.                                                                                                              |
| <b>PROBLEM:</b>  | Inner IR Segments light five times after you press a key.                                                                                                          |
| <b>SOLUTION:</b> | Replace batteries with two new AA alkaline batteries.                                                                                                              |

## OFA Kameleon™ 6-Device Hybrid Remote

PROBLEM:	No display when programming.	SOLUTION:	Make sure the total number of key presses being programmed is less than 15 and that you are not trying to program a macro on an invalid key (Device keys, <b>Set</b> Key and <b>Fav</b> key).
SOLUTION:	Display has turned off due to inactivity. Start programming again and do not pause while performing instructions.	PROBLEM:	Power macro does not execute.
PROBLEM:	During programming, the two inner IR segments display a long flash.	SOLUTION:	Make sure to press and hold the <b>POWER</b> for at least three seconds to initiate Power Macro.
SOLUTION:	An invalid entry has occurred. Check the keys to be pressed and start programming again.	PROBLEM:	Changing channels does not work properly.
PROBLEM:	IR sent animation is displayed when you press a key, but home entertainment device does not respond.	SOLUTION:	If original remote control required pressing <b>ENTER</b> or <b>OK</b> to change channels, press <b>ENTER</b> or <b>OK</b> on the remote control after entering the channel number.
SOLUTION:	Make sure the remote control is aimed at your home entertainment device and is not farther than 15 feet away.	PROBLEM:	During learning, Inner IR Segments display a long blink after pressing and holding key to be learned.
PROBLEM:	The unit does not control home entertainment devices or commands are not working properly.	SOLUTION:	Memory is full or a bad capture has occurred. Avoid high-ambient light sources, such as direct daylight and fluorescent bulbs. Try readjusting positions of remote controls before performing the procedure again.
SOLUTION:	Try all listed codes for the device brands being set up. Make sure they can be operated with an infrared remote control.	PROBLEM:	Tried Search For Your Code method and still could not find a working code.
PROBLEM:	Tried Searching For Your Code method and still could not find a working code.	SOLUTION:	Perform Restoring Factory Default Settings on page 17. Then repeat Searching For Your Code on page 10.
SOLUTION:	Perform Restoring Factory Default Settings on page 17. Then repeat Searching For Your Code on page 10.	PROBLEM:	Cannot program a macro onto <b>M1</b> , <b>POWER</b> or other keys.
PROBLEM:	Cannot program a macro onto <b>M1</b> , <b>POWER</b> or other keys.		

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**SOLUTION:** Clear the device key as follows:

1. Press and hold **SET** until the Inner IR Segments blink twice, then release.
2. Enter **9 9 2**.
3. Press the device key to be cleared twice.
4. Repeat the Search For Your Code method.

**PROBLEM:** The remote changes TV channels when entered with the digit keys but does not operate the channel up or down correctly (channels are skipped).

**SOLUTION:** You will need to "Auto program" the channels on your TV. Consult your TV's owners manual for this feature.

**PROBLEM:** No remote control of volume.

**SOLUTION:** See Changing Volume Lock on page page 16 to lock/unlock volume.

**PROBLEM:** If the above does not work.

**SOLUTION:** Please contact us in any of the following ways:

- Please visit [www.oneforall.com](http://www.oneforall.com)
- If the above website is not able to provide you with the information you need, please email us at [ofasupport@ueic.com](mailto:ofasupport@ueic.com) and refer to "Troubleshooting"
- Customer Support:  
(330) 405-8620  
Mon – Fri from  
9AM to 5:30 PM EST

## FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiated radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## MANUFACTURER'S CODES

### SETUP CODES FOR AUDIO AMP/TUNERS

ADC	0531
Adcom	0616
Aiwa	1405, 0158, 0189, 1388, 0121, 0405, 1641
Akai	1512, 0224
Alco	1390

## OFA Kameleon™ 6-Device Hybrid Remote

Amphion Media Works	1563	Lexicon	1076
AMW	1563, 1615	Linn	0189
Anam	1609, 1074	Liquid Video	1497
Apex Digital	1257, 1430	Lloyd's	0195
Arcam	1120	LXI	0181
Audiotronic	1189	Magnavox	1189, 1269, 0189, 0195, 0531, 1514, 0128, 0391
Audiovox	1627, 1390	Marantz	1189, 1269, 0039, 0189, 1289, 0128
Bose	1229, 0639, 1253	MCS	0039, 0346
Brix	1602	Mitsubishi	1393
Cambridge Soundworks	1624, 1370	Modulaire	0195
Capetronic	0531	NAD	0320
Carver	1189, 0189, 0360, 0042, 0008	Nakamichi	1555, 0347, 0097
Casio	0195	NEC	0235
Clarinet	0195	Norcent	1389
Classic	1352	Onkyo	0135, 1298, 0842, 0380, 1531
Coby	1389, 1263	Optimus	1023, 0219, 0738, 1074, 0080, 0186, 0670, 0042 0181, 0531, 0801, 0177
Criterion	1420	Oritron	1497, 1366
Curtis Mathes	0080	Panasonic	1518, 0039, 1633, 1288, 1548, 1764, 0367, 1763 0309, 1316
Daewoo	1250	Penney	0195
Dell	1383	Philips	1189, 1269, 0189, 1120, 0391, 1266
Denon	1360, 0273, 0004, 0771	Pioneer	1023, 0150, 0630, 0080, 0531, 1384, 0014, 0244
Emerson	0424	Polaroid	1508
Fisher	0042, 1801, 0360, 0219	Polk Audio	0189, 1289
Garrard	0463, 0424	Proscan	1254
Gateway	1517, 1567	Quasar	0039
Glory Horse	1263	RadioShack	1263
Go Video	1532	RCA	1023, 1609, 1254, 1154, 1511, 0080, 0530, 1074 1390, 0054, 0360, 0346, 0531
Harman/Kardon	0110, 0189, 0891, 1306	Realistic	0181, 0163, 0195
Hewlett Packard	1181	Regent	1437
Hitachi	1801	Rio	1383, 1869
Initial	1426	Saba	1519
Inkel	0062	Samsung	1295, 1500
Integra	0135	Sansui	0189, 0346
JBL	0110, 1306		
JVC	0074, 1263, 1495, 1374		
Kenwood	1313, 1570, 1569, 0027, 0186, 0077, 0042, 0239		
KLH	1428, 1412, 1390		
Koss	1497, 1366, 0424		
Lasonic	1798		
Lenox	1437		

**OWNER'S MANUAL**

Sanyo	0219, 1469, 1251, 0801
Scott	0322, 0163
Sharp	0186, 1286
Sharper Image	1556, 1263
Sherwood	0502, 1653, 0491, 1423, 0062, 1077
Sonic Blue	1383, 1532
Sony	1058, 1441, 1258, 1759, 0158, 1758, 0168, 1658 1858, 1406, 1558, 0474, 1349, 1442
Soundesign	0670
Stereophonics	1023
Sunfire	1313
Teac	0163, 1390, 1074, 0463, 1528
Technics	1308, 1518, 0039, 0208, 0309
Thorens	1189
Venturer	1390
Victor	0074
Wards	0158, 0189, 0014, 0080, 0054
Yamaha	0176, 0186, 1331, 1276, 1176, 1375
Yorx	0195
Zenith	1293, 0857

**SETUP CODES FOR AUDIO AMPLIFIERS**

Accuphase	0382
Acurus	0765
Adcom	0577, 1100
Aiwa	0406
AudioSource	0011
Bel Canto Design	1583
Bose	0674
Carver	0269
Classe	1462, 1461
Curtis Mathes	0300
Denon	0160
Durabrand	1561
GE	0078
Harman/Kardon	0892

JVC	0331
Kenwood	0356
Left Coast	0892
Lenoxx	1561
Linn	0269
Luxman	0165
Magnavox	0269
Marantz	0892, 0321, 0269
Mark Levinson	1483
Nakamichi	0321
NEC	0264
Optimus	0395, 0300
Panasonic	0308, 0521
Parasound	0246
Philips	0892, 0269
Pioneer	0300, 0013
Polk Audio	0892, 0269
RCA	0300
Realistic	0395
Sansui	0321
Shure	0264
Sony	0689, 0220, 0815
Soundesign	0078, 0211
Technics	0521, 0308
Victor	0331
Wards	0078, 0013, 0211
Yamaha	0354, 0143, 0133, 0504

**SETUP CODES FOR CABLE CONVERTERS**

ABC	0003, 0008, 0014, 0007, 0013, 0011, 0017
Allegro	0153, 0315
Americast	0899
Antronix	0022
Archer	0797, 0153, 0022
Belcor	0056
Bell & Howell	0014
Bell South	0899
Cable Star	0056
Cabletenna	0022
Cableview	0022
Century	0153

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Citizen	0315, 0153	Philips	0317, 0153, 0025, 1305
Clearmaster	0883	Pioneer	1877, 0877, 0144, 0533
ClearMax	0883	Popular Mechanics	0400
Cleartron	1327	Pulsar	0000
Colour Voice	0025	Quasar	0000
Comtronics	0040	RadioShack	0015, 0883, 0797, 0315
Contec	0019	RCA	0021
Coolmax	0883	Recoton	0400
Digi	0637	Regal	0279, 0273, 0020, 0259
Director	0476	Regency	0002
Dumont	0637	Rembrandt	0011
Eastern	0002	Runco	0000
Emerson	0797	Samsung	0144, 0040
Everquest	0040, 0015	Scientific Atlanta	1877, 0877, 0477, 0008, 0017
Focus	0400	Signal	0040, 0015
Garrard	0153	Signature	0011
GC Electronics	0056	SL Marx	0040
Gemini	0797, 0015	Sony	1006
General Instrument	0476, 0810, 0276, 0003, 0011	Sprucer	0021
Global	1327	Starcom	0003, 0015
GoldStar	0144, 0040	Stargate	0040, 0015, 0797
Goodmind	0797	Starquest	0015
Hamlin	0009, 0273, 0020, 0259, 0034	Supercable	0276
Hitachi	0011	Supermax	0883
Hytex	0007	Tandy	0258
Jasco	0015, 0315, 0153	Teleview	0040
Jerrold	0476, 0810, 0276, 0003, 0012, 0014, 0015, 0011	Timeless	0040
Memorex	0000	Tocom	0012, 0013
Motorola	0476, 0810, 0276, 1254, 1106, 1376	Torx	0003
Movie Time	0063	Toshiba	0000
Multitech	0883	Tristar	0883
NSC	0063	Tusa	0015
Oak	0019, 0007	TV86	0063
Optimus	0021	Unika	0153, 0022
Pace	1877, 0237	United Artists	0007
Panasonic	0000, 0107, 0021	Universal	0056, 0022, 0191, 0153
Panther	0637	V2	0883
Paragon	0000	Viewmaster	0883
		Viewstar	0258, 0063
		Vision	0883
		Vortex View	0883

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Zenith	0000, 0525, 0899
Zentek	0400

**SETUP CODES FOR CABLE/DVR  
COMBINATION**

Americast	0899
General Instrument	0476, 0810
Jerrold	0476, 0810
Motorola	0476, 0810, 1106, 1376
Pace	1877, 0237
Pioneer	1877, 0877
Scientific Atlanta	1877, 0877
Sony	1006
Supercable	0276
Zenith	0899

**SETUP CODES FOR CD PLAYERS**

ADC	0018
Adcom	0234, 0155
Aiwa	0157, 0012, 0124
Akai	0156
Audio Alchemy	0194
Audio-Technica	0170
BSR	0194, 0245
Burmester	0420
California Audio Labs	0029, 0303
Carrera	0194
Carver	0157, 0179, 0437
Classic	1297
Crown	0122
DAK	0245
DBX	0254
Denon	0873, 0003
DKK	0000
DMX Electronics	0157
Emerson	0305, 0164, 0155, 0469
Fisher	0179, 0174, 1325, 0088, 0342
Garrard	0245, 0420, 0393, 0280, 0425
GE	0009
Gemini	0625

Genexxa	0032, 0305, 0164
GoldStar	0417
GPX	1296
Harman/Kardon	0157, 0173, 1202, 0426
Hitachi	0032, 0155
Integra	0101
JVC	0072, 1294, 0655
Kenwood	0681, 0826, 0028, 0037, 0190
KLH	1318
Kodak	0287
Koss	1317
Krell	0157
Kyocera	0018
Linn	0157
Luxman	0093
LXI	0305
Magnavox	0157, 0305
Marantz	0626, 0029, 0157, 0180
Mark Levinson	1484
McIntosh	0287
MCS	0029, 0043
Miro	0000
Mission	0157
MTC	0625, 0420
Nakamichi	0147
NEC	0234, 0043
Nikko	0174, 0170, 0164, 0625
NSM	0157
Onkyo	0868, 0101
Optimus	1063, 0000, 0032, 0037, 0175, 0196, 0342, 0437, 1075, 0145, 0194, 0305, 0426, 0087, 0179, 0280, 0420, 0468
Panasonic	0029, 0752, 0303
Parasound	0194, 0420
Philips	0626, 0157, 0287
Pioneer	1063, 0032, 0305, 0468
Polk Audio	0157
Proton	0157
QED	0157
Quad	0157

## OFA Kameleon™ 6-Device Hybrid Remote

Quasar	0029
RadioShack	1075
RCA	1062, 0032, 0179, 0468, 0009, 0155, 0420, 0053 0305, 0764
Realistic	0180, 0155, 0179, 0175, 0420, 0164
Rotel	0157, 0420
SAE	0157
Sansui	0157, 0202, 0305
Sanyo	0179, 0087
Scott	0305, 0164, 0155
Sears	0305
Sharp	0861, 0037, 0180
Sherwood	1067, 0426, 0196, 0180
Shure	0043
Sonic Frontiers	0157
Sony	0490, 0000, 0185, 0605, 0100, 0604, 1364
Soundesign	0425, 0145
STS	0018
Symphonic	0305
TAG McLaren	0157
Tascam	0420
TDK	1208
Teac	0180, 0174, 0420, 0393
Technics	0029, 0303, 0207
Tivoli Audio	1553
Vector Research	0417, 0194
Victor	0072
Wards	0157, 0053
Yamaha	0888, 0036, 0170, 1292, 0187
YBA	0625
Yorx	0461

### SETUP CODES FOR CD-R

Classic	1297
Fisher	1325
GPX	1296
Harman/Kardon	1202
JVC	1294

Kenwood	0626
LG	1208
Marantz	0626
Philips	0626
Pioneer	1062, 1087
Sony	0000, 0100, 1364
TDK	1208
Teac	0420
Yamaha	0888, 1292

### SETUP CODES FOR DBS/PVR COMBINATION

(Programmed using the VCR/PVR Key)

Echostar	1945, 1944, 1943, 1946
Expressvu	1944
Hughes Network Systems	0739, 1239, 0745, 1949, 0740, 1240
Hyundai	1951
JVC	1945
Philips	1949, 0739
Proscan	1954
RCA	1989, 1964
Sony	1956, 1957

### SETUP CODES FOR DVD PLAYERS

Adcom	1094
Advent	1016
Aiwa	0641, 1912
Akai	0770, 1975, 1089, 0899
Alco	0790
Allegro	0869
Amphion Media Works	1176, 0872, 2001
AMW	1176, 0872, 2016, 2001
Anaba	0813
Anam	1913
Apex Digital	0672, 0717, 1020, 1100, 0796, 1004, 1061, 1937 0794, 0830, 1056, 1915, 0755, 0797
Aspire Digital	1168
Audiologic	0736

**OWNER'S MANUAL**

Audiovox	1071, 1122, 1041, 1121, 1072	Harman/Kardon	0702, 0582
Axion	1072, 1071	Hitachi	0573, 0664, 1919
B & K	0662, 0655	Hiteker	0672
Bel Canto Design	1571	Honda	1114
Blaupunkt	0717	Honyas	1142
Blue Parade	0571	Initial	0717, 1931
Boss Audio Systems	1093	Integra	0627, 1924
Broksonic	0868, 0695	Jamo	2003
Cambridge	1916	Jaton	1078
Soundworks		JBL	0702, 1926
CAVS	1057	JVC	0558, 0623, 0867, 1940, 1901
CineVision	0876, 0869	jWin	1049, 1051
Clarion	0892, 0891, 1039	Kawasaki	0790
Classic	1917	Kenwood	0490, 0534, 0737, 0682
Coby	0852, 1165, 0778, 1107, 1086, 1923	KLH	0717, 1020, 0790, 1939, 1149
Criterion	2007	Konka	0719, 0711, 0721, 0720
Curtis Mathes	1087	Koss	0651, 1980
CyberHome	1023, 1129, 1019, 1117, 0816, 1024	Landel	0826
Daewoo	0784, 0869, 1918, 0833, 1234, 1172, 0705	Lasonic	0798, 1173
Denon	0490, 0634	Lenoxx	1938
Disney	0675	LG	0591, 0869
Dual	1085, 1068	Liquid Video	1980
DVD2000	0521	Lite-On	1058, 1158
Emerson	0591, 0821, 0675	Magnavox	0503, 0539, 0675, 1976, 1914, 0821
Enterprise	0591	Malata	1159, 0782
Fahrenheit	1054, 0890, 1142, 0887, 1066	Marantz	0539
Fisher	0670, 1919	Memorex	0695
FlexVision	1134	Microsoft	0522
Fun TV	1055	Mintek	0839, 0717
Funai	0675	Mitsubishi	1521, 0521
Gateway	1077, 1073, 1158	Momitsu	1082
GE	0522, 0815, 0717	Nesa	0717
Go Video	0744, 0833, 1075, 1158, 0783, 1044, 1144, 1970 0869, 1099, 1730	Next Base	0826
Go Vision	1071, 1072	Niro	2024
GPX	0769, 0699	Nissho Iwai	1055
Greenhill	0717	Norcent	1003, 0872, 1923, 1107
		Onkyo	0503, 0627, 1985, 1924
		Optiview	0813
		Oritron	0651, 1980

## OFA Kameleon™ 6-Device Hybrid Remote

Panasonic	0490, 1362, 1762, 1909, 1990, 0824, 1490, 1908 1986, 0632, 1462, 1907, 1925, 2017
Philco	2000
Philips	0503, 0539, 0646, 1914, 0885, 0854
Pioneer	0525, 0571, 0632, 1902, 1059
Polaroid	1061, 1998, 1200, 1086
Polk Audio	0539
Portland	0770
Princeton	0674
Proscan	0522
ProVision	0778
Qwestar	0651
RCA	0522, 0571, 0717, 0822, 1193, 1974, 1132, 1965 1022, 1913
Regent	1938
Rio	2002
Rotel	0623
Rowa	0823
Saba	1977
Sampo	0752, 0698
Samsung	0490, 0573, 0820, 1075, 1044, 1979, 0899, 1932
Sansui	0695
Sanyo	1967, 0873, 0695, 0670
Sensory Science	1158
Sharp	0630, 0752
Sharper Image	1995, 1117
Sherwood	0633, 1077, 1043, 0770
Shinsonic	0533, 0839, 1931
Sigma Designs	0674
Sonic Blue	1970, 1099
Sony	0533, 1533, 0864, 1095, 1904, 2020, 1033, 1903 1981, 1934
Sova	1122
Sungale	1074
SVA	0860, 1105
Sylvania	0821, 0675

Symphonic	0675
Teac	1984, 0790
Technics	0490
Technosonic	0730
Techwood	0692
Terapin	1031
Theta Digital	0571
Tivo	1996
Toshiba	0503, 1154, 2006, 1045, 1996, 0695, 1988
Tredex	0799, 0804, 0803, 0800
TView	0813
Urban Concepts	0503
US Logic	0839
V Inc.	1226, 1064
Venturer	0790
Vocopro	1027
Xbox	0522
Xwave	1001
Yamaha	0490, 0539, 0545
Zenith	0503, 0591, 1906, 0869

### SETUP CODES FOR DVD/PVR COMBINATION

RCA	0880
Toshiba	1503, 1008

### SETUP CODES FOR DVD/VCR COMBINATION

#### Programmed Using the DVD Key

Allegro	0869
Apex Digital	1061
Broksonic	0695
CineVision	0869
Daewoo	0869, 0833
Emerson	0675
Funai	0675
Go Video	0744, 1044, 0715, 0869, 0833, 1075
Hitachi	0664
JVC	0867

## OWNER'S MANUAL

Memorex	0695
Panasonic	1762
Philips	0675
Polaroid	1061
RCA	0822
Rio	2002
Samsung	1075, 1044, 0820
Sansui	0695
Sanyo	0873
Sharp	0630
Sonic Blue	2002
Sony	0864
Sylvania	0675
Symphonic	0675
Toshiba	0503
Zenith	0869

### Programmed Using the VCR Key

Emerson	1593
Funai	1593
Hitachi	0000
RCA	0060
Sanyo	0104
Sharp	0848
Sylvania	0000, 1593, 0593
Symphonic	0000, 1593

### SETUP CODES FOR DVD-R

Apex Digital	1056
Aspire Digital	1168
Coby	1086
CyberHome	1129
Funai	0675
Gateway	1073, 1158
Go Video	1730, 1158
Lite-On	1158
Panasonic	0490
Philips	0646
Polaroid	1086
Samsung	0490
Sensory Science	1158
Sony	1033

Sylvania	0675
Toshiba	1988

### SETUP CODES FOR HD-TV DECODER

LG	1415
Macro Image Technology	1383
Motorola	1363
MyHD	1383
Panasonic	1120
Pioneer	1010
Princeton	0113, 0295
Samsung	1190, 1490
Sensory Science	1126
Sharp	1010
Viewsonic	1329

### SETUP CODES FOR HOME AUTOMATION

Accutek	1215
Bionaire	1215
Da-Lite	0780
Frigidaire	1333
GE	0240
GoldStar	1537
Holmes	1215
KENMORE	1537
Lasko	0846
LG	1537
Lightolier	0184
LiteTouch	0084
Lutron	0597, 1239, 1597
One For All	0167
RadioShack	0240
Security System	0167
Sharper Image	0846
Somfy	0780
Universal X10	0167
Whirlpool	1332
Windmere	1215
X10	0167

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### SETUP CODES FOR HTiB - HOME THEATER IN-A-BOX

(Programmed using the DVD key)

Aiwa	0641, 1912
Akai	1975
Amphion Media Works	2016, 2001
AMW	2001, 2016
Anam	1913
Apex Digital	1915, 1937
Audiovox	0790
Cambridge Soundworks	1916
Classic	1917
Coby	1923
Criterion	2007
Daewoo	1918
Fisher	1919
Go Video	1970
Hitachi	1919
Initial	1931
Jamo	2003
JBL	1926
JVC	1940, 1901
KLH	0790, 1939
Koss	0651, 1980
LG	1906
Liquid Video	1980
Magnavox	1976
Niro	2024
Norcent	1923
Onkyo	0627, 1924, 1985
Oritron	0651, 1980
Panasonic	1990, 1909, 1986, 1908, 1925, 2017, 1907, 1910
Philips	1914, 0885
Pioneer	1902
Polaroid	1998
Polk Audio	0539
RCA	1965, 1913, 0790, 1974
Regent	1938
Rio	0869, 2002

Saba	1977
Samsung	1979, 1932
Sanyo	1967
Sharper Image	1995
Sonic Blue	0869, 2002, 1970
Sony	1903, 1981, 1934, 1904, 2020
Teac	1984, 0790
Toshiba	2006
Venturer	0790
Zenith	1906

### SETUP CODES FOR MISCELLANEOUS AUDIO

Aiwa	0010, 0159
Altec Lansing	1485
Cambridge Soundworks	1530
Creative	0872
Jerrold	0520, 0459
Marantz	1491
Motorola	1464
Omnifi	1605
Scientific Atlanta	0460
Sony	0010, 0159
Starcom	0459

### SETUP CODES FOR PVRs

(Programmed using the VCR/PVR key)

ABS	1972
Alienware	1972
CyberPower	1972
Dell	1972
DirecTV	1949, 0739, 1989, 1954
Dish Network System	1943, 1946, 1945, 1944
Dishpro	1943, 1944
Echostar	1944, 1943, 1946, 1945
Expressvu	1944
Gateway	1972
GOI	1944
Hauppauge	1992
Hewlett Packard	1972
Howard Computers	1972

## OWNER'S MANUAL

HP	1972
HTS	1944
Hughes Network Systems	1949, 0739
Humax	0739
Hush	1972
Hyundai	1951
iBUYPOWER	1972
JVC	1945, 1944
LG	2010
Linksys	1972
Media Center PC	1972
Microsoft	1972
Mind	1972
Niveus Media	1972
Northgate	1972
Panasonic	0616
Philips	1949, 0739, 0618
Proscan	1954
RCA	1954, 0880, 1989
ReplayTV	0616, 0614
Sonic Blue	0616, 0614
Sony	0636, 1972, 1957, 1956
Stack 9	1972
Systemax	1972
Tagar Systems	1972
Tivo	0618, 0740, 1240, 0739, 1239, 1957, 0636, 0745, 1956
Toshiba	1008, 1972
Touch	1972
UltimateTV	1989
Viewsonic	1972
Voodoo	1972
ZT Group	1972

### SETUP CODES FOR SATELLITE RECEIVER/ PVR COMBINATION

(Programmed using the CBL/SAT key)

Echostar	0775, 1505, 1170
Expressvu	0775

Hughes Network Systems	1142, 1442, 1538, 1444, 1443, 1539
JVC	1170
Philips	1142, 1442
Proscan	0392
RCA	1392
Sony	0639, 1640

### SETUP CODES FOR SATELLITE RECEIVERS

AlphaStar	0772
Century	0856
Chaparral	0216
Crossdigital	1109
DirecTV	0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 0724, 0819, 1856, 1076, 1109, 0099, 1392, 1443, 1539, 1442, 1538, 1640, 1414, 1444, 1108
Dish Network System	1005, 0775, 1775, 1505, 1170
Dishpro	1005, 0775, 1775, 1505
Echostar	1005, 0775, 1170, 1775, 1505
Expressvu	0775, 1775
GE	0566
General Instrument	0869
GOI	0775, 1775
Gradiente	0856
Hisense	1535
Hitachi	0819
HTS	0775, 1775
Hughes Network Systems	1142, 0749, 1749, 1443, 1539, 1442, 1538, 1444
I-Lo	1535
JVC	0775, 1775, 1170
LG	1414
Magnavox	0724, 0722
Memorex	0724
Mitsubishi	0749
Motorola	0869, 0856
Next Level	0869
Panasonic	0247, 0701

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Paysat	0724
Philips	1142, 0749, 1749, 0724, 1076, 0722, 0099, 1442, 0856
Proscan	0392, 0566
Proton	1535
RadioShack	0869
RCA	0392, 0566, 0855, 0143, 1392
Samsung	1276, 1109, 1108
SKY	0856
Sony	0639, 1639, 1640
Star Choice	0869
Tivo	1142, 1443, 1539, 1442, 1538, 1444
Toshiba	0749, 1749, 0790, 1285
UltimateTV	1640, 1392
Uniden	0724, 0722
US Digital	1535
USDTV	1535
Viva	0856
Voom	0869
Zenith	1856, 0856

### SETUP CODES FOR TVs

A-Mark	0003
Abex	0032
Admiral	0093, 0463
Advent	0761, 0815, 1933, 0783, 0842, 0817
Adventura	0046
Aiko	0092
Aiwa	1914
Akai	0812, 0702, 0030, 0672, 1903
Alaron	0179
Albatron	0700, 0843
Ambassador	0177
America Action	0180
Ampro	0751
Anam	0180
Anam National	0055

AOC	0030, 0052, 0019, 0185, 0003
Apex Digital	0748, 0765, 1943, 0879, 0767
Archer	0003
Audiovox	0451, 0180, 1951, 0092, 0623, 1937, 0003, 0875 1952, 0802
Aventura	0171
Axion	1937
Belcor	0019
Bell & Howell	0154, 0016
BenQ	1032
Bradford	0180
Brockwood	0019
Broksonic	0236, 0463, 1938, 0003, 1935
Candle	0030, 0046, 0186, 0056
Carnivale	0030
Carver	0054
CCE	0217
Celebrity	0000
Celera	0765
Changhong	0765
Citizen	0060, 0030, 0280, 0056, 0186, 0046, 0092, 0039
Clairtone	0185
Clarion	0180
Commercial Solutions	1447, 0047
Concerto	0056
Contec	0180, 0157, 0185
Craig	0180
Crosley	0054
Crown	0180, 0039
Curtis Mathes	0047, 0054, 0154, 0451, 0093, 0060, 0702, 0030 0145, 0166, 0466, 1347, 0039, 0056, 1147, 0016
CXC	0180
Daewoo	0451, 1661, 0092, 0672, 0039, 0623, 1909, 0019
Daytron	0019
Dell	1178, 1080

**OWNER'S MANUAL**

Denon	0145	Janeil	0046
Dumont	0017, 0019	JBL	0054
Durabrand	0463, 0180, 0178, 0171, 0003, 1034	JCB	0000
Dwin	0774, 0720	Jensen	0761, 0817, 0815
Electroband	0000, 0185	JVC	0053, 1253
Electrograph	1755	Kaypani	0052
Electrohome	0381	KEC	0180
Emerson	0154, 0236, 0463, 0180, 0178, 0171, 0280, 0623 0038, 1944, 0179, 0019, 1911, 0185, 0282, 1909 0039, 0177	Kenwood	0030, 0019
Envision	0030, 0813	KLH	0765, 0767
Epson	0833, 0840	Kloss	0046, 0024
ESA	0812, 0171	Konka	0638, 1939, 0632, 0707, 0628, 0703, 1940
Fisher	0154, 0159	KTV	0180, 0030, 0280, 0039, 0217, 0185
Fujitsu	0683, 0179, 0853, 0809	LG	0178, 0856, 0700, 1178, 0007
Funai	0180, 0171, 0179	Logik	0016
Futuretech	0180	Luce	1031
Gateway	1756, 1755	Luxman	0056
GE	1447, 0047, 0051, 0451, 0178, 0055, 0282, 1347 0021, 1147, 0135, 0027	LXI	0047, 0054, 0154, 0156, 0178
Gibraltar	0017, 0030, 0019	Magnasonic	1913
Go Video	0886	Magnavox	1454, 0054, 0030, 0706, 0179, 0386, 0024, 0096 0187, 1254, 1944, 0020, 0186, 1913
GoldStar	0030, 0178, 0001, 0032, 0019	Majestic	0016
Grunpy	0180, 0179	Marantz	0054, 0030, 0854, 0704, 1154, 0855
Haier	0768, 1034	Matsushita	0250, 0650
Hallmark	0178	Maxent	1755
Harley Davidson	0179	Megapower	0700
Harman/Kardon	0054	Megatron	0178, 0145, 0003
Harvard	0180	MEI	0185
Havermy	0093	Memorex	0154, 0463, 0150, 0178, 0179, 1920, 0016, 1911
Helios	0865	MGA	0150, 0030, 0178, 0019
Hello Kitty	0451	Midland	0047, 0017, 0051, 0039, 0135, 0032
Hisense	0748	Minutz	0021
Hitachi	1145, 0145, 0056, 0038, 0151, 0032, 0016	Mitsubishi	0093, 1250, 0150, 0178, 0868, 0836, 0019
Hyundai	0849	Monivision	0843, 0700
Infinity	0054		
Inteq	0017		

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Motorola	0093, 0055	RCA	1447, 0047, 1948, 0019, 0090, 1047, 1347, 1922 0018, 1958, 0679, 1247, 1547, 1953, 0038, 0135 1147
MTC	0060, 0030, 0185, 0019, 0056	Realistic	0154, 0180, 0030, 0178, 0019, 0039, 0165, 0032 0056
Multitech	0180, 0217	Rhapsody	0185
NAD	0156, 0178, 0866	Runco	0017, 0030, 0603, 0497
NEC	0030, 0019, 0497, 0056, 1704, 0882	Sampo	0030, 0039, 0032, 1755, 0052
NetTV	1755	Samsung	0060, 0812, 0702, 0030, 0178, 1060, 0019, 0056 0814, 0032, 1903, 0766
Nikko	0030, 0178, 0092	Samsux	0039
Norcent	0748, 0824	Sansui	0463, 1935, 1911
Noshi	0018	Sanyo	0154, 0146, 0799, 0159, 0893
NTC	0092	Scimitsu	0019
Onwa	0180	Scotch	0178
Optimus	0154, 0250, 0166, 1913, 0650, 1927, 1924	Scott	0236, 0180, 0178, 0179, 0019
Optoma	0887	Sears	0047, 0054, 0154, 0156, 0178, 0171, 0146, 0159 0179, 0056
Optonica	0093, 0165	Sharp	0093, 0386, 0689, 0039, 0165, 0688, 1917, 0157 0491, 0851
Orion	0236, 0463, 1911, 0179, 1463	Sharper Image	1950
Panasonic	0250, 0051, 1924, 1946, 0055, 1410, 1941, 0650 1927, 1947	Sheng Chia	0093
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0019, 0135 1347, 0018, 0027, 0039, 0003, 0021, 0032	Shogun	0019
Philco	0054, 0030, 0020, 0096, 0019	Signature	0016
Philips	1454, 0054, 0690, 1154	Simpson	0187, 0186
Pilot	0030, 0019, 0039	Sony	1100, 0000, 0834, 0111, 0080
Pioneer	0166, 0038, 0866, 0679	Soundesign	0180, 0178, 0179, 0186
Portland	0092, 0039, 0019	Sova	1952
Prima	0761, 0817, 0815, 0783	Spectricon	0003
Princeton	0717, 0700	Squareview	0171
Prism	0051	SSS	0180, 0019
Proscan	1447, 0047, 1347, 1922	Starlite	0180
Proton	0178, 0052, 0003, 0466	Studio Experience	0843
Pulsar	0017, 0019	Superscan	0864
Quasar	0250, 0051, 0165, 0055, 0650		
RadioShack	0047, 0154, 0180, 0030, 0178, 1904, 0019, 0039 0032, 0056, 1920, 0165		

## OWNER'S MANUAL

Supre-Macy	0046
Supreme	0000
SVA	0748, 0870, 0587, 0865, 0872, 0768, 0871
Sylvania	0054, 0030, 0171, 0020, 0096, 1944, 0381
Symphonic	0180, 0171, 1913
Tandy	0093
Tatung	1756, 0055, 0003
Technics	0250, 0051
Technol Ace	0179
Techview	0847
Techwood	0051, 0003, 0056
Teco	1040
Teknika	0054, 0180, 0150, 0060, 0056, 0186, 0016, 0092 0039, 0179, 0019
Telefunken	0702, 0056
TMK	0178, 0056, 0177
TNCi	0017
Toshiba	0154, 1256, 0156, 0060, 0650, 1156, 1656, 1935 0845, 1356, 1918, 0832, 1704, 1945
Tosonic	0185
Totevision	0039
Trical	0157
TVS	0463
Universal	0027
V Inc.	0864, 1756, 0885
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0178, 0019
Viewsonic	0864, 0857, 1755, 0885
Viking	0046
Wards	0054, 0030, 0178, 0021, 0096, 1156, 0020, 0080 0165, 0866, 0019, 0027, 0056, 0111, 0179, 0016
Waycon	0156
Westinghouse	0889
White Westinghouse	0463, 0623, 1909

Yamaha	0030, 0839, 0019, 0833, 0769
Zenith	0017, 0463, 0178, 0092, 1909, 0016, 1911
Zonda	0003

### SETUP CODES FOR TV/DVD COMBINATION

#### (Programmed using the TV key)

Advent	1933
Apex Digital	1943
Audiovox	1937, 1952, 1951
Axion	1937
Broksonic	1935
Jensen	1933
Konka	1939, 1940
Panasonic	1941
Prima	1933
RCA	1948, 1958
Samsung	1903
Sansui	1935
Sova	1952
Sylvania	0171
Toshiba	1935

### SETUP CODES FOR TV/VCR COMBINATION

#### (Programmed using the TV key)

Aiwa	1914
America Action	0180
Audiovox	0180
Broksonic	1929, 1911, 1905
Citizen	1928
Colt	1906
Curtis Mathes	1919
Daewoo	1928, 1909
Emerson	0236, 1905, 1928, 1911, 1909, 1929
Funai	1904
GE	1907, 1922, 1919, 1917
GoldStar	1926
Harley Davidson	1904
Hitachi	1904
JVC	1923

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Lloyd's	1904
Magnasonic	1928, 1913
Magnavox	1931, 1913, 1904
Magnin	1907
Memorex	1924, 1920, 1927, 1926
MGA	1907
Mitsubishi	1917
Optimus	1924, 1913, 1927
Orion	1929, 1911, 1905
Panasonic	1927, 1924, 1919
Penney	1926, 1919, 1907
Quasar	1924, 1919
RadioShack	1904, 1920
RCA	1917, 1907, 1922, 1919
Sansui	1911, 1904, 1929
Sanyo	1907
Sears	1904, 1926
Sony	1925, 1904
Sylvania	1931
Symphonic	1913, 1904
Thomas	1904
Toshiba	1936, 1918
White Westinghouse	1909
Zenith	1929, 1911, 1904

### SETUP CODES FOR TV/VCR/DVD COMBINATION

#### (Programmed using the TV key)

Akai	1903
Broksonic	1938
Emerson	1944
Panasonic	1947, 1946
RCA	1953
Sharp	1917
Sylvania	1944
Toshiba	1945

### SETUP CODES FOR VCRs

ABS	1972
Admiral	0048, 0209
Adventura	0000

Aiko	0278
Aiwa	0037, 0000, 0307
Akai	0041, 0106, 0061
Alienware	1972
America Action	0278
American High	0035
Asha	0240
Audiovox	0037, 0278
Beaumark	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209
Calix	0037
Canon	0035
Capehart	0020
Carver	0081
CCE	0072, 0278
Citizen	0037, 0278
Colt	0072
Craig	0037, 0047, 0240, 0072, 0271
Curtis Mathes	0060, 0035, 0162, 0041, 0760
Cybernex	0240
CyberPower	1972
Daewoo	0045, 0278, 0020, 0561
Daytron	0020
Denon	0042
DirecTV	0739, 1239, 1954, 0745, 1949, 0740, 1240, 1989
Dish Network System	1944, 1943, 1946, 1945
Dishpro	1943, 1944
Durabrand	0039, 0038
Dynatech	0000
Echostar	1945, 1944, 1943, 1946
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278 0561, 0061, 0208, 0479, 1593, 0593
Euro1	1962

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Expressvu	1944	Marta	0037
Fisher	0047, 0104	Matsushita	0035, 0162, 1162
Fuji	0035, 0033	MEI	0035
Funai	0000, 0593, 1593	Memorex	0035, 0037, 0048, 0039, 0047, 0240, 0000, 0104 0209, 0479, 0046, 0307, 1037
Garrard	0000	MGA	0043, 0061
Gateway	1972	MGN Technology	0240
GE	0060, 0035, 0760, 0202, 0761	Microsoft	1972
Go Video	0526, 0432	Mind	1972
GOI	1944	Minolta	0042, 0105
GoldStar	0037, 0038	Mitsubishi	0067, 0043, 0061
Gradiente	0000	Motorola	0035, 0048
Harley Davidson	0000	MTC	0240, 0000
Harman/Kardon	0081, 0038	Multitech	0000, 0072
Harwood	0072	NEC	0104, 0067, 0041, 0038
Hauppauge	1992	Nikko	0037
Headquarter	0046	Niveus Media	1972
Hewlett Packard	1972	Noblex	0240
HI-Q	0047	Northgate	1972
Hitachi	0000, 0042, 0041, 0105	Olympus	0035
HTS	1944	Optimus	1062, 0162, 0037, 0048, 0104, 0593, 1162, 0432 1048, 1262
Hughes Network Systems	0042, 0739, 1239, 0745, 1949, 0740, 1240	Optonica	0062
Humax	0739	Orion	0184, 0209, 0479
Hush	1972	Panarex	1950
iBUYPOWER	1972	Panasonic	1062, 0035, 0162, 1262, 0225, 1162, 0616
Jensen	0041	Pansat	1950
JVC	0067, 0041, 0008, 1944, 1945	Penney	0035, 0037, 0240, 0042, 0038
KEC	0037, 0278	Pentax	0042, 0105
Kenwood	0067, 0041, 0038	Philco	0035
KLH	0072	Philips	0035, 0081, 1181, 1081, 0062, 0739, 1949, 0618
Kodak	0035, 0037	Pilot	0037
LG	2010	Pioneer	0067
Linksys	1972	Polk Audio	0081
Lloyd's	0000, 0208	Portland	0020
Logik	0072	Profitronic	0240
LXI	0037		
Magnasonic	0593		
Magnavox	0035, 0039, 0081, 0149, 0593, 0563		
Magnin	0240		
Marantz	0035, 0081		

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Proscan	0060, 0760, 1954, 0202, 1060, 0761
Protec	0072
Pulsar	0039
Quarter	0046
Quartz	0046
Quasar	0035, 0162, 1162
RadioShack	0000, 1037
Radix	0037
Randex	0037
RCA	0060, 0042, 0149, 0880, 1964, 0761, 1954, 0106 0760, 1060, 1989, 0105, 0202
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0046, 0062
ReplayTV	0616, 0614
Ricavision	1972
Runco	0039
Samsung	0240, 0045, 1014
Sanky	0048, 0039
Sansui	0067, 0209, 0041, 0271, 0479
Sanyo	0047, 0240, 0104, 0046
Scott	0184, 0045, 0121, 0043
Sears	0035, 0037, 0047, 0042, 0104, 0046, 0105
Sharp	0048, 0738, 0062, 0848, 0807
Shintom	0072
Shogun	0240
Singer	0072
Sonic Blue	0616, 0614
Sony	0035, 0032, 0033, 1972, 1032, 0636
Stack 9	1972
STS	0042
Sylvania	0035, 0081, 0000, 0043, 0593, 1593
Symphonic	0000, 0593, 1593
Tagar Systems	1972
Tatung	0041
Teac	0000, 0041

Technics	0035, 0162
Teknika	0035, 0037, 0000
Tivo	0739, 1239, 1956, 0636, 0745, 1503, 0618, 0740 1240, 1957
TMK	0240, 0208
Toshiba	0045, 0043, 0845, 1503, 1008
Totevision	0037, 0240
Touch	1972
UltimateTV	1989
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045, 0061
Videomagic	0037
Videosonic	0240
Viewsonic	1972
Villain	0000
Voodoo	1972
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042 0072, 0149, 0062, 0760
White Westinghouse	0209, 0072
XR-1000	0035, 0000, 0072
Yamaha	0038
Zenith	0039, 0033, 0209, 1139, 0479
ZT Group	1972

### SETUP CODES FOR VIDEO ACCESSORIES

ABS	1272
Alienware	1272
Archer	0160
Bantor	0160
CyberPower	1272
Dwin	1093
Faroudja	0300
Focus Enhancements	1357, 1346, 1345
Gateway	1272
GC Electronics	0160
Hewlett Packard	1272, 1267

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Howard Computers	1272
HP	1272
Hush	1272
iBUYPOWER	1272
InterVideo	1393
Jebsee	0160
Jensen	1165
JVC	1384
Keyspan	1344
KWorld	1403
LG	1415
Linksys	1272, 1365
Macro Image Technology	1383
Media Center PC	1272
Microsoft	1272
Mind	1272
Motorola	1363
MyHD	1383
Niveus Media	1272
Northgate	1272
Panasonic	1120
Pinnacle Systems	1268
Princeton	0113, 0295
Rabbit	0081
RadioShack	0160
RCA	1217
Ricavision	1272
Roku	1486
Samsung	1190, 1490
Sensory Science	1126
Sharp	1010
SMC	1456
Sony	1272, 1324, 1364
Stack 9	1272
Streamzap	1309
Systemax	1272
Tagar Systems	1272
TeleCaption	0171
Toshiba	1272
Touch	1272
Viewsonic	1272, 1329

Voodoo 1272

ZT Group 1272

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## OFA Kameleon™ 6-Device Hybrid Remote

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## ADDITIONAL INFORMATION

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