

**ONE
FOR ALL**

kAMELEON™

**8-Device
Universal Remote Control
With IR/RF Base Station
URC-9964B00**



User's Guide



KAMELEON 8-DEVICE REMOTE

TABLE OF CONTENTS

Introduction	3	Programming Favorite Channel Scan	41
Installing Batteries	4	Restoring Factory Default Settings	42
How Kameleon™ Works	5	Clearing All Custom Programming	43
Features And Functions	6	Manufacturer's Codes	44
Key Charts	7	Setup Codes for Audio Amplifiers	44
Device Table	12	Setup Codes for Audio Receivers	44
Adjusting The Display	13	Setup Codes for Cable Boxes	45
Adjusting Brightness	13	Setup Codes for CD Players	46
Adjusting How Long The Screen Light is On	14	Setup Codes for DVD Players	46
Setting the Vibration Switch	15	Setup Codes for DVD Player/PVR Combos	45
Programming Device Control	15	Setup Codes for DVD Player/VCR Combos (DVD Codes)	47
Programming Combo Device Control	17	Setup Codes for Home Automation	48
Searching For Your Code	19	Setup Codes for Home-Theater-in-a-Box Systems (Receiver Codes)	48
Checking The Codes	20	Setup Codes for Mini-Disc Players	48
Using The Home Theater Mode	21	Setup Codes for PVRs	48
Control Organization	21	Setup Codes for Satellite Receivers	48
Programming The Home Theater Mode	22	Setup Codes for Satellite Receivers/PVR Combos	49
Using the IR/RF Base Station	24	Setup Codes for TVs	49
Setting Up the IR/RF Base Station	24	Setup Codes for TV/DVD Player Combos (TV Codes)	51
Adding the IR Signal Extension Cord	26	Setup Codes for TV/VCR Combos (TV Codes)	52
Optimizing IR/RF Base Station Reception	26	Setup Codes for TV/VCR/DVD Player Combos	53
Changing Volume Lock	27	Setup Codes for VCRs	54
Using Macros	30	Setup Codes for Video Accessories	55
Programming a Favorite Channel Macro	30	About Upgrading	56
Programming a Master Power Macro in the Home Theater Mode	32	Upgrade Procedure	56
Clearing a Macro	33	Upgrade Exclusions	57
Using Learning	33	Troubleshooting	57
Learning Precautions	33	Device Menu Screens	60
Programming a Learning Key	34	Customer Support	73
Deleting a Single Learning Key	35	Compliance with FCC Rules and Regulations	65
Deleting All Learned Keys in a Specific Mode	36	Limited Warranty	74
Reassigning Device Keys	37	Battery Use And Safety	75
Using Keymover	38	About Battery Life	75
Programming Keymover	38	Specifications	75
Restoring a Single Keymoved Key	39	Additional Information	76
Restoring All Keymoved Keys in a Single Mode	39		
Using Channel Scan	41		

USER'S GUIDE

INTRODUCTION

The OFA Kameleon™ 8-Device Remote with RF (URC-9964B00) is a revolutionary universal remote control that uses Universal Electronics' Kameleon Technology. Moreover, it allows you to consolidate the clutter of all of your original remote controls into one easy-to-use product. Advanced features include:

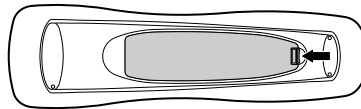
- **Kameleon Technology** – dynamic menu screens that respond to device selection and illuminate only active keys
- **Home Theater Mode** – a custom mode that groups the most-often-used keys together for operating convenience in one mode
- **Macros** – for instant activation of favorite key sequences
- **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
- **IR/RF Base station** – for extended remote control signal range
- **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** – our unique telephone upgrade system ensures your remote control always has the latest setup codes when adding new devices in the future

After installing four (4) new AAA alkaline batteries (not included, see next page), you can immediately use the unit to control a Motorola Cable Box, a Toshiba DVD Player, a Philips Tivo PVR (DVR), a Pioneer CD Player and Audio Receiver, and a RCA TV, VCR, and Satellite Receiver. To control other brands than the default ones, see *Programming Device Control* on page 15.



KAMELEON 8-DEVICE REMOTE WITH RF

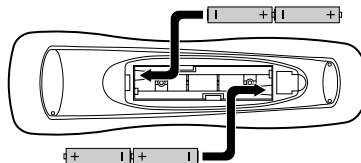
INSTALLING BATTERIES



1

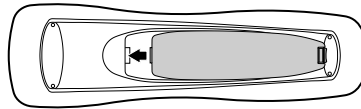
NOTE: The two bottom segments of the IR indicator flash when the batteries are running low. The batteries need replacement if one of the following conditions occurs:

1. Pressing any key turns on all keys and icons.
2. The vibration switch no longer activates the display (if the vibration switch feature is still enabled).
3. Pressing a key while the screen is off causes all of the keys and icons to turn on.



2

See "Battery Use And Safety" on page 75 for additional information.



3

1. On the remote control's back, push the tab and lift off the battery cover.
2. Obtain four (4) new AAA alkaline batteries. Match the + and - marks on the batteries to the + and - marks in the battery case, then insert the new batteries.
3. Press the battery cover back into place. The tab should click when the cover is locked.
4. Once the batteries are inserted correctly, press anywhere in the middle part of the screen. The display will turn on and show all keys. If a key is not pressed after the display turns on, the display will turn off. The display can be turned on by moving the unit or by pressing on the center of the screen.

USER'S GUIDE

HOW KAMELEON™ WORKS

Kameleon™ allows wireless controllers to dynamically change their appearance and functionality, to match the home entertainment environment. Moreover, this technology provides unparalleled ease-of-use and superior control by delivering a uniquely intuitive, graphical interface that intelligently illuminates only the active keys.

The OFA Kameleon 8-Device Remote with RF uses Kameleon technology to provide the versatility of an LCD remote control with the feel of a traditional push button unit. The result is a stunning, bright display with engaging animation and touch-sensitive graphics for the user.

The remote control includes convenient *Menu Driven* programming. The displays are divided into two types of interactive screens: *Device Menus* for normal remote control use, and *Programming Menus* for feature setup. Acting like its namesake, Kameleon changes the *Device Menu* for the device being selected. For example, selecting TV displays a main menu that contains channel selection, volume control, and a keypad. However, selecting a DVD player still displays a menu with those same keys as the TV, but now navigation keys and transport controls are added for the DVD device.

Several devices have additional menus that can be accessed using **SCROLL** (see *Device Menu Screens*, starting on page 60. For example, TV has three menus: a main menu with keys for a general purpose TV, a second menu screen that adds navigation keys and removes **FORMAT**, **INPUT** and **ENTER** keys, and a third menu screen that adds **INPUT**, **ENTER**, and **PIP** keys. Depending on desired features, a user has the flexibility to use any menu screen that works best for the selected device.

NOTE: *The CD, DVD, and PVR modes do not have additional menu screens even though SCROLL is displayed.*

Animated key graphics also provided enhanced operational feedback, so the user can easily see what mode is active and when the commands are communicating with a device. The end result of Kameleon technology is a simple, elegant, and intelligent way of organizing a large number of remote control keys for eight different devices in a relatively small case.



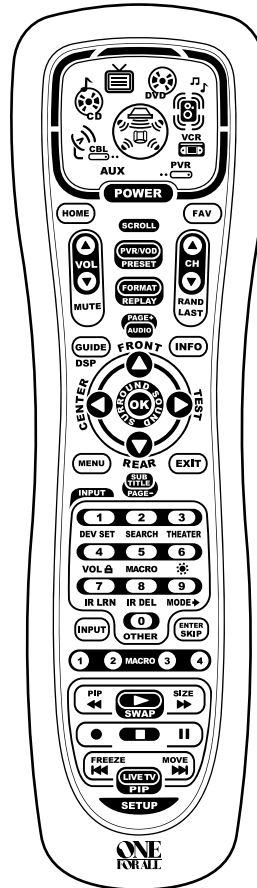
KAMELEON 8-DEVICE REMOTE WITH RF

FEATURES AND FUNCTIONS

Use the illustration to the right to locate features on the OFA Kameleon 8-Device Remote with RF (URC-9960) and then refer to the *Key Charts* (starting on page 7) to learn how they function.

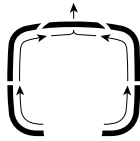
NOTE: *The illustration shows all remote control keys. In actual operation, only active keys used by the selected device are displayed and non-active keys are hidden.*

To find out what type of devices can be controlled by each device key after programming, see the *Device Table* on page 12.

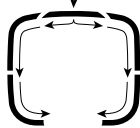


USER'S GUIDE

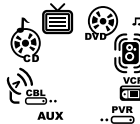
KEY CHARTS.



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.



Incoming animation (see arrows) indicates the remote control is receiving IR signals from a device being learned (see *Using Learning* on page 33)



Press a **Device Key** once to select a home entertainment device to control (e.g., **DVD**). When selected, the **Device Key** animates to indicate it is currently active. Also see the *Device Table* on page 12.



After programming, press the **Home Theater** key once to select the home theater mode (see *Using The Home Theater Mode* on page 21).

POWER

Press **POWER** once to turn on or off a selected device.

HOME

During programming, the **HOME** key appears. Use it to exit the program screen or to return to the last-selected device key screen.

FAV

In the **AUX**, **CBL/SAT**, and **TV** modes, use **FAV** to scan through all channels, or after programming, to scan through 10 favorite channels.

SCROLL

In the **AUX**, **CBL/SAT**, **TV**, **AUDIO**, and **VCR** modes, use **SCROLL** to view additional key screens for the selected device.



Use **VOL ▲** (or **VOL ▼**) to raise (or lower) the sound volume for the selected device (also see *Changing Volume Lock* on page 27).

Press **MUTE** once to turn the sound off or on.



KAMELEON 8-DEVICE REMOTE WITH RF

PVR/VOD

In the **AUX** and **CBL/SAT** modes, use **PVR/VOD** to access PVR/VOD programs (if available on your cable or satellite service).



In the **AUDIO** mode, use **PRESET** to access preset stations on your audio device.

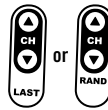
FORMAT

In the **TV** mode, use **FORMAT** to change the aspect ratio or zoom (if feature is available on your TV).



In the **DVD** or **PVR** mode, press **REPLAY** once to replay a DVD chapter or a recorded program on your PVR (or DVR).

In the **CBL/SAT** and **AUX** modes, press **SCROLL** once to display **REPLAY** and then press **REPLAY** once to replay a VOD program (if available on your cable or satellite service).



Use **CH ▲** (or **CH ▼**) to select the next higher (or lower) channel.

In all modes except **CD**, **DVD**, and **PVR**, press **LAST** once to recall the last channel.

In the **PVR** mode, use **LAST** to select live or recorded video.

In the **CD** or **DVD** modes, press **RAND** to play random tracks or chapters.



In the **AUX** and **CBL/SAT** modes, use **PAGE+** or **PAGE-** to page up or down through channels in the program guide.

AUDIO

In the **DVD** mode, press **AUDIO** once to access DVD audio formats (if available).

GUIDE

In all modes except **AUDIO**, use **GUIDE** to display your selected device's program guide or setup menu.



In the **AUDIO** mode, use **DSP** to access DSP features (if available) on your audio device.

INFO

Use **INFO** to display the current channel and program information.

USER'S GUIDE



In the **AUX**, **CBL/SAT**, **CD**, **DVD**, and **PVR** modes, use the **Cursor Keys** to move the cursor in the program guide and menu screens.

Use **OK** to choose options from your selected device's menu or guide.

In the **TV** or **VCR** mode, press **SCROLL** once to access the **Cursor** and **OK** Keys.

In the **AUDIO** mode, press **SCROLL** twice to access the **Cursor** and **OK** Keys.



In the **AUDIO** mode, use the **Cursor Keys** to move the cursor to select or test surround sound channels on your audio device. Also see **VOL** keys (above left).

Use **OK** to choose options from your audio device's menu or guide.



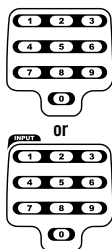
Press **MENU** once to display your selected device's main menu.



Use **EXIT** to exit from your selected device's guide or menu.



In the **DVD** or **AUDIO** mode, press **SUBTITLE** once to display (or turn off) subtitles, if available on your DVD or audio device.



In all modes except **AUDIO**, use the **Number Keys** (1 – 9 and 0) to directly select channels (e.g., 009 or 031) or enter numbers. In the **AUDIO** mode, use the **Number Keys** to directly select inputs 1 – 9 and 10. To enter channels in the **AUDIO** mode, press **SCROLL** three times to view channel **Number Keys** (see above)



Use **INPUT** to change the input source for a selected device.



For certain brands in all modes except **CD** and **AUDIO**, press **ENTER** once after entering numbers (if required on your original remote control).



KAMELEON 8-DEVICE REMOTE WITH RF



For **CD** or **AUDIO** modes, press **SKIP** once to skip to the next track on your audio device.



After programming, press **Macro Key 1 – 4** once to run a macro (see *Using Macros* on page 30).



In the **CD**, **DVD**, **AUDIO**, and **VCR** modes, use the **Transport Keys** to control the device's transport.

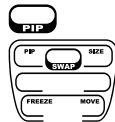
or



In the **PVR** mode, use the **LIVE Transport Keys** to control PVR/DVR video.

In the **CBL/SAT** or **AUX** mode, press **SCROLL** once to display and use the **LIVE Transport Keys** to control VOD (Video On Demand) if available on your cable/satellite service.

In all modes except **TV**, press **1** twice to record a program on your device (if function is available).



In the **TV** mode, press **PIP** once (or press **SCROLL** twice) to display the **PIP Keys**. Use them to control the following Picture-In-Picture features (if available) on your TV:



Use **PIP** to switch the Picture-In-Picture feature on or off.



Use **SWAP** to switch images and sound between the main and window pictures.



Use **SIZE** to select a different picture window size.



Press **FREEZE** once to capture a frame of video in the main picture. Press it again to resume normal viewing.

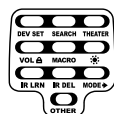


Use **MOVE** to move the window picture to different places in the main picture.



Use **SETUP** to enable the programming screen.

USER'S GUIDE



In the program mode, use the **Program Keys** to personalize the remote control as follows:

Use **DEV SET** to program your device codes. See *Programming Device Control* on page 15.

Use **SEARCH** as an alternate way to set up a device by searching available codes. See *Searching For Your Code* on page 19.

Use **THEATER** to create a custom mode with favorite remote control keys from different devices in your home theater system. See *Using The Home Theater Mode* on page 21.

Use **VOL (Volume Lock)** to set volume controls for individual or global device use. See *Changing Volume Lock* on page 27.

Use **MACRO** to program a series of commands on five available macro keys. See *Using Macros* on page 30.

Use **Brightness** to adjust the brightness level of the EL display. See *Adjusting Brightness* on page 13.

Use **IR LRN** and **IR DEL** to add and delete key functions learned from your original device remote controls. See *Using Learning* on page 33.

Use **MODE** to reassign an unused device key to control a second device. See *Reassigning Device Keys* on page 37.

Use **OTHER** to program other functions. See the *Table of Contents* on page 2 for sections on *Checking The Codes*, *Programming Favorite Channel Scan*, *Using Keymover*, or *Upgrading*.



KAMELEON 8-DEVICE REMOTE WITH RF

DEVICE TABLE

NOTE: Please refer to the table below when performing the instructions in "Programming Device Control" on page 15.

After programming, the OFA Kameleon 8-Device Remote with RF will be able to control the following types of devices:

DEVICE KEY	CONTROLS THESE DEVICES
AUX	Video Accessory or second device (e.g., Cable Box, Satellite Receiver, DVD Player, etc.) by reassigning device keys (see <i>Reassigning Device Keys</i> on page 37)
	Cable Box (converter), Cable/DVR Combo, Satellite receiver, Satellite/PVR Combo
	CD Player, Mini Disc player or Home Automation
	Television (including HDTV, Plasma and LCD), TV/DVD Combo (listed as TV Codes), TV/VCR Combo (listed as TV Codes).
	DVD players, Home-Theater-In-A-Box devices (listed as DVD codes), TV/DVD Player Combo, TV/DVD/VCR Player Combo, DVD/VCR Player Combo (listed as DVD Codes) or DVD/PVR Combo
	Audio Amplifier, Audio Receiver or Home-Theater-In-A-Box devices (listed as Receiver codes under <i>Setup Codes For Audio Receivers</i> on page 44)
	VCR, TV/VCR Combo (listed as VCR Codes) or VCR/DVD Combo (listed as VCR Codes)
	PVR

Note: When programming a code, make sure that the correct mode key is selected, and that a valid code is programmed for that device (see controls these devices, above).

USER'S GUIDE

ADJUSTING THE DISPLAY

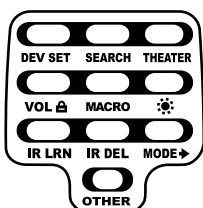
Your new remote has several ways to adjust the display for your comfort and best use.

ADJUSTING BRIGHTNESS

The OFA Kameleon 8-Device Remote with RF has five levels of brightness adjustment and is set to the middle one at the factory. To increase or decrease the brightness, perform the following steps:

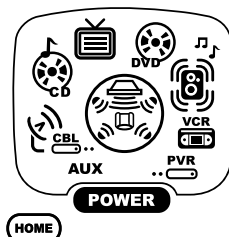
NOTE: *Increasing the brightness of the display can decrease battery life.*

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



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

2. Press (**Brightness**) once. The **Brightness** programming screen appears:



- To increase brightness, press ▲ one or more times.
- To decrease brightness, press ▼ one or more times.

3. When the desired brightness is achieved, press **HOME** twice to exit programming and return to the last-selected device menu screen.

NOTE: *Otherwise, to program other features, press **HOME** only once to return to the Program Keys.*



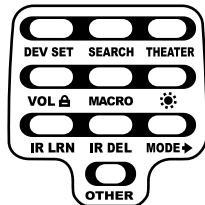
KAMELEON 8-DEVICE REMOTE WITH RF

ADJUSTING HOW LONG THE SCREEN LIGHT IS ON

The OFA Kameleon 8-Device Remote with RF 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:

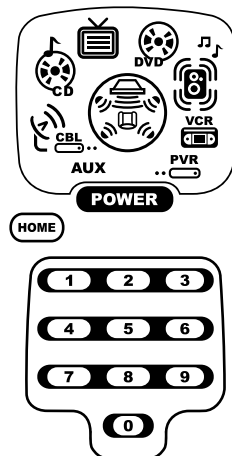
NOTE: *Increasing the display on time can decrease battery life.*

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



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

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



3. Using the **Number Keys**, enter **9 7 8**. The bottom two IR segments flash twice and display the *Other* screen again.
4. 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
4	16 seconds
5	20 seconds

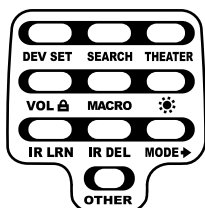
5. Press **HOME** twice to exit programming and return to the last-selected device menu screen.

USER'S GUIDE

SETTING THE VIBRATION SWITCH

The OFA Kameleon 8-Device Remote with RF is set at the factory to turn the display on when you pick it up, before you even press a button (the vibration switch is on). To turn vibration off, perform the following steps.

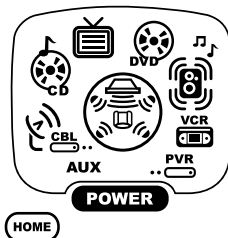
1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** appear.



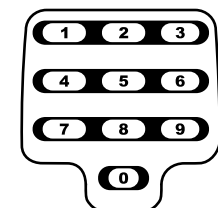
NOTE: Turning off the vibration switch can significantly extend battery life.

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

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



3. Using the **Number Keys**, enter **9 8 5**. The bottom two IR segments flash four times, to indicate vibration switch has been turned off.
4. Press **HOME** twice to exit programming and return to the last-selected device menu screen.



To turn vibration switch back on, repeat steps 1 to 4 above. Note that the bottom two IR segments flash twice (in step 3), to indicate that the vibration switch is back on.

PROGRAMMING DEVICE CONTROL

The OFA Kameleon 8-Device Remote with RF is preset at the factory to operate the following devices:

- Motorola Cable Box (using the **AUX** key)
- Philips Tivo PVR (DVR)
- Pioneer CD Player and Audio Receiver
- RCA TV, VCR, and Satellite Receiver
- Toshiba DVD Player