



GYR4101US



ULTRA R4000
PC/TV UNIVERSAL REMOTE WITH
AIR MOUSE AND MUSIC DISPLAY

United States Version

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Introduction

This users' manual describes the operation of the ULTRA R4000 PC/TV Universal Remote Control Unit with Air Mouse and Music Display (RCU). The RCU contains an embedded micro gyro for motion sensing and in-air control of a floating cursor. This RCU features IR code database and IR learning capabilities to universally control standard home theater devices such as TVs, VCRs, Digital Video Recorders (DVR), DVD players, CD players, cable/SAT boxes, etc. This RCU links directly to your Windows Media Player Audio library. Using the Music Display on the RCU you can browse through your audio files and listen to your music on the PC without going to your computer.

The RCU is also equipped with a 2.4 GHz RF transceiver to send cursor movement information and other commands to the PC via a USB transceiver. The radio frequency (RF) transceiver delivers a range of up to 100 feet with no line-of-sight requirement. The 800 possible channels of the RF transceiver provide high resistance to interference from other radio devices.

Battery Installation and Information

The ULTRA R4000 Motion-Sensing RCU requires four AAA Alkaline batteries. To install the batteries:

1. Remove the battery compartment cover.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery compartment.
3. Replace the battery compartment cover and snap it into place.

Note: Reprogramming may be required after batteries are replaced.

Battery Saver

The RCU saves battery power by automatically going into a low-power state if no button is pressed after a few seconds. See the Gyro section for gyro battery saver mode.

Product Registration Information

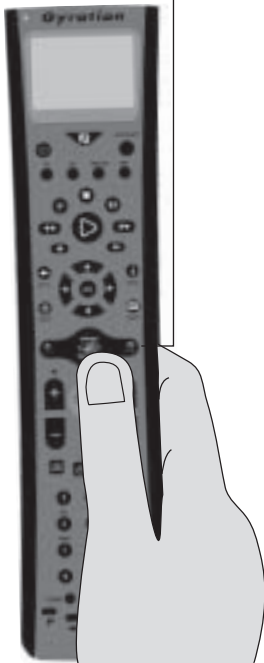
Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial number in case you need it. The serial number is located on the product.

Model Number	_____
Serial Number	_____ Purchase Date _____
Dealer/Address/Phone	_____

Gyro Operation

The RCU provides in-air control of the PC's cursor via patented gyroscopic motion sensing technology. This means mouse-like cursor control, from anywhere in the room, without the need of a flat surface. There is no line-of-sight requirement so you don't have to point the RCU at the PC you are controlling. Remember the following things when using the in-air cursor control feature of the RCU:

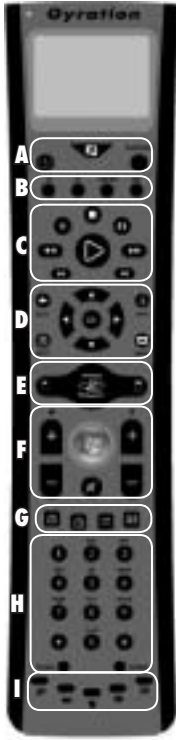
- Use your thumb to press the gyro and mouse buttons.
- Click the center button to activate the gyro motion-sensing control. Single click and hold to move the cursor and release it to "park" the cursor where you want it. Double click the center button and release it for continuous cursor movement similar to a standard mouse.
- The right and left buttons function like standard mouse right-click and left-click buttons.
- Move the cursor by flexing your wrist, not your arm or body, much as you would with a flashlight; side to side and up and down. Placing your arm on an armrest or on your lap will make this motion more comfortable.
- The RF Transmit LED indicates when gyro motion or other information is being sent. The LED does not illuminate when transmitting IR information.



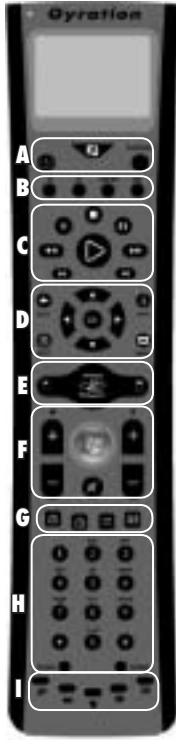
Product Diagram

Button Cluster Locations	Button Cluster	Function
	A	Power (standby), Music Display Button, Display Backlighting
	B	RCU mode selection and power
	C	Transport control
	D	Power/Standby: Places the PC into Standby (or power off dependant on the PC configuration) "Music Display Button" Start Music display interaction with PC Backlight: Turns on and off the backlight RF Status LED is located at top left corner (next to Gyration company name)
	E	
	F	
	G	
	H	
	I	

Product Diagram (continued)

Button Cluster Locations	Button Cluster	Function
	D Menu navigation	Standard menu navigation: up, down, left, right, OK. Includes MS required buttons: BACK: RF=Back, IR=Last MORE: RF= More Info, IR=None Includes other buttons: INPUT: RF=none, IR=TV Input selection MENU: RF=DVD Menu, IR=Menu
	E Gyro button cluster	Center button activates gyro for in-air cursor control. Outer buttons function like standard left and right mouse buttons.
	F Volume and Channel control, eHome (Vista MCE Green Button), Mute	Standard volume up/down, channel up/down, Vista Media Center eHome, and volume mute.
	G Media Center shortcuts	Shortcuts buttons to easily navigate within the Media Center environment. Recorded-TV, Live TV, My Pictures, Guide

Product Diagram (continued)

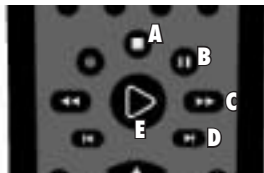
Button Cluster Locations	Button Cluster	Function
	H Alpha-numeric keypad	Standard 0-9 keys with alpha characters, plus *, space, #, CLEAR , and ENTER
	I US: Hotkeys (For US/North American Remotes only)	My Videos, Mail, Web, My Radio, Favorites

RCU Mode Selection



A	Puts RCU into <i>TV control mode</i> for communicating with TV via IR protocol.
B	Puts RCU into <i>PC control mode</i> for communicating with Media Center PC via RF protocol.
C	Puts RCU into <i>Cable / Satellite control mode</i> for communicating with Cable or Satellite box via IR protocol.
D	Puts RCU into <i>Aux mode</i> for communicating with an auxiliary device via IR protocol.
E	Music Display Button - Turns on Display and puts RCU into <i>Music control mode</i> for playing music stored on your PC.
F	PC, TV, CAB/SAT, AUX mode: Powers on/off the selected device. PC Mode: Issues a standby command. If the system is active, the first button pressed puts it into standby mode. If the system is already in standby mode, a button press will awaken.
G	Transmit LED indicator for RF transmission only
H	Backlight – Toggles the backlight for the button keys. If the Display is active, the Display backlight will turn on or off.

Transport Control



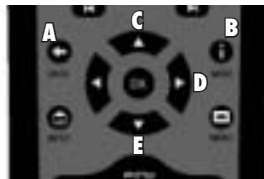
	TV, CAB/SAT, AUX Mode or Music Mode:	PC Mode
A	Puts selected device into <i>Stop mode</i> , if supported	Stops media playback and positions pointer to start of media
B	Puts selected device into <i>Pause mode</i> , if supported	First button press will pause the media at present position. Subsequent button presses toggles between pause and playback at present position pointer.
C	Puts selected device into <i>Fast Forward mode</i> , if supported	First press speeds up the time base of the media stream to the first FF value (3X). If media is a slide show, skips to next picture. Subsequent button presses cycle through the FF speed values looping through 0 (normal speed) 3X, 20X, 60X. If slide show, skips to next picture.
D	Skip command, if supported by selected device	Skips ahead an increment: CD and Playlists skip to next song. DVD skips to next chapter. Slide show skips to next picture. DVR skips 29 seconds.
E	Puts selected device into <i>Play mode</i> , if supported	Start (if paused, continue) playback of media at present position pointer. Used by Media Center for Media Center media, DVR, CD/DVD, playlists and slide shows.

Transport Control



	TV, CAB/SAT, AUX Mode or Music Mode:	PC Mode
F	Replay command, if supported by selected device	Move the position pointer back an increment: CD and Playlist: skips back to previous song. DVD: skips back to previous chapter. Slide show: skips back to previous picture. DVR skips back 7 seconds
G	Puts selected device into <i>Reverse</i> mode, if supported	First press speeds up the time base and reverses direction of the media stream to the first rewind value (3X). Second press cycles through the reverse speed values looping through 0 (normal speed) 3X, 20X, 60X. If media is a slide show, skips to previous picture
H	Puts selected device into <i>Record</i> mode, if supported	Records the TV show to disk. Starts recording at the beginning of the show as defined by on-screen TV program guide (if the pause buffer enables it)

Menu Navigation



	TV, CAB/SAT, AUX Mode or Music Mode:	PC Mode
A	BACK - IR: Goes back one location (if supported)*	Goes back one location of the user interface back stack
B	MORE - IR: Provides more information (if supported)	Provide information if available for the focus point
C	Menu Navigation Up *	Moves the focus point up one location, if at top of the screen takes no action
D	Menu Navigation Right *	Moves focus point right one position, if at rightmost position takes no action
E	Menu Navigation Down *	Moves the focus point down one location, if at bottom of the screen takes no action

* See Music Display Navigation Section for information on using the Music Display

Menu Navigation



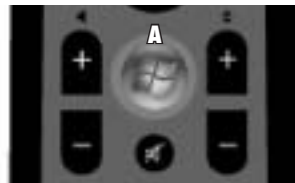
	TV, CAB/SAT, AUX Mode or Music mode:	PC Mode
F	Menu Navigation Left*	Moves focus point left one position, if at leftmost position goes back 1 page in the user interface stack
G	Menu OK Performs action indicated by focus point*	Performs action indicated by focus point
H	Menu IR: Setup menu	Media Center "DVD Menu"
I	TV Input IR: (TV Mode) Cycles through the TV inputs. No action in other modes * See Music Display Navigation Section for information on using the Music Display	No action

Gyro Activation/Select



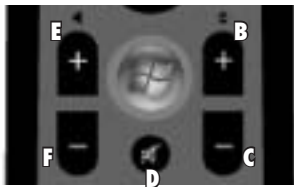
A	Simulates a left-mouse button-click
B	Simulates a right-mouse button-click
C	Activates gyroscope for motion-sensing cursor control, motion-sensing menu navigation, or other motion-sensing features

Channel/Volume Control & Media Center Green Button



	PC, TV, AUX or CAB/SAT Mode	PC Mode
A	Goes to Windows Vista Media Center Home page, launches Media Center if not running already.	Goes to Windows Vista Media Center Home page, launches Media Center if not running already.

Channel/Volume Control & Media Center Green Button



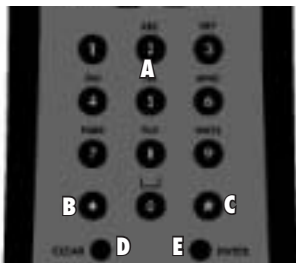
	PC, TV, AUX or CAB/SAT Mode	PC Mode
B	Increment the current channel by 1	Increment the current channel by 1. If in a list view, move up a page in the list.
C	Decrement the current channel by 1	Decrement the current channel by 1. If in a list view, move back a page in the list.
D	Mute selected device, if applicable	Mute the entire PC volume, toggle mute state
E	Decrement the current volume by 1 unit	Decrement the current volume by 1 unit. If muted, un-mute the volume first.
F	Increment the current volume by 1 unit	Increment the current PC volume by 1 unit. If muted, un-mute the volume first.

MCE Shortcut Buttons



	PC, TV, AUX or CAB/SAT Mode	PC Mode
A - Recorded-TV	No action	Shortcut to the Windows Media Center "Recorded TV" page
B - Live TV	No action	Brings Media Center Live TV to the front
C - My Pictures	No action	Shortcut to the Windows Media Center "My Pictures" page
D - Guide	Shows the EPG (electronic program guide) for the particular device selected	Invokes the on-screen Media Center TV programming guide

Numeric Keypad



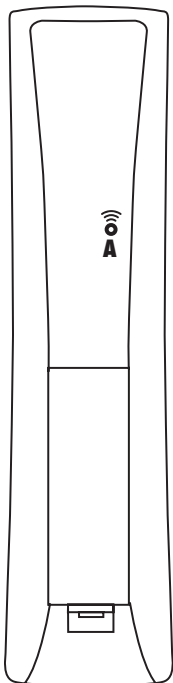
	PC, TV, AUX or CAB/SAT mode	PC Mode
A	Standard 1-9, alphanumeric	Standard 1-9, alphanumeric
B	Inserts a * symbol, if supported by the selected device	*
C	Inserts a # symbol, if supported by the selected device	#
D	Clear, if supported by the selected device	<i>Clear</i>
E	Enter, if supported by the selected device	<i>Enter</i>

Shortcut Buttons



A	My Videos: Microsoft defined button - Shortcut to the Windows Media Center "My Videos" page
B	Mail: Launches default email program on the PC
C	Web: Launches default web browser on the PC
D	My Radio: Microsoft defined button - Shortcut to the Windows Media Center "My Radio"
E	Favorites: Displays the Web Browser "favorites" (favorite URL addresses). Only active when the Web browser is the focus.

Connect



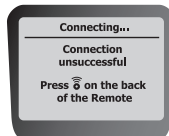
A **Connect:** Located on the back side of the RCU. Connects (Binds) the RCU to the Gyration USB RF Receiver (requires a pen-tip to activate the button since it is below the surface)



Music Display While Connecting



Music Display Upon Successful Connection



Music Display Upon Unsuccessful Connection, See Troubleshooting Section For More Information

Backlighting

The RCU Mode Selection buttons (**TV, PC, CAB/SAT, and AUX**) are lit when pressed; these buttons light up whenever they are pressed (for 2-3 seconds) to indicate which Control Mode the remote is in.

There is no automatic backlighting on any of the RCU buttons. The "Backlight" button controls the backlight of the RCU buttons and the Display. Upon pressing the "Backlight" button, the main RCU keys will be backlit. If the Display is active (by pressing the Display button), the Display will also become backlit.

The backlight acts as a toggle and can also be used to turn off all backlighting. Additionally, the backlighting will timeout after a short amount of time (timeout occurs after last button pressed and the backlight turns off if no other button is pressed within 10 seconds).

If the backlighting seems dim, the batteries may need to be replaced.

Power / Standby Toggle Button

This button turns the selected device on or off or toggles its power state from standby to active. The device is selected with the RCU Mode Switches; **PC, TV, CAB/SAT, and AUX**.

In **PC** mode, this button issues a standard Windows **STANDBY** command. Various options for this command can be set up in Windows. Go to Start/Control Panel/Power Options/Advanced and then set a function for the **STANDBY** command. In the default configuration, if the PC is already on, the first button press puts the PC into standby mode. If the PC is in standby mode, another press of this button will wake up the PC.

RF Receiver & Synchronization

Communication between the RCU and the PC is done via an RF transceiver which is plugged into a standard USB port in the PC. In order for this to work, you need to synchronize, or “bind” your remote and PC. See below for the binding procedure.

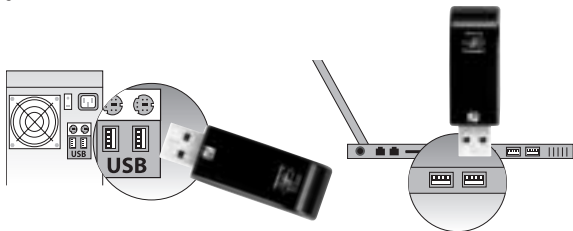
Setting Up & Synchronizing The Remote & The PC

After inserting the batteries in the remote control unit,

1. Hold the remote in close proximity to the PC.
2. Press the **CONNECT** button on the RF Dongle transceiver which is plugged into the PC USB port.
3. Press the **CONNECT** button on the underside of the RCU.
4. The Display screen on the RCU will indicate a successful connection.
5. If a successful connection is not made, repeat steps 1 - 3

Receiver Installation

The RCU requires a USB RF transceiver be plugged into a USB port in the PC in order to access RF and gyro functions. The USB extension cable can be used to maximize the range of the RCU by placing the USB RF transceiver away from other electrical components. A USB RF transceiver does not need to be plugged in to use the IR remote functions. See the diagram below.



USB Features

- Connects to PC via standard USB 2.0 connection
- PC operating systems supported: Windows Vista, Windows XP MCE, and Windows XP
- LED to indicate bind sequence and radio activity
- Connect button, pen-push type

USB Compatibility

The transceiver uses a standard USB Type A connector for connection to any standard USB port of a computer. The transceiver is a certified USB compatible 2.0 device, running at low speed. It is certified to run on Windows Vista, Windows XP MCE, and Windows XP.

Transceiver Compatibility Matrix with Gyration Products

This transceiver is compatible with the following Gyration products:

Ultra R4000 (The Music Service and Music Display functions of this remote require use of the included Ultra 4000 RF Receiver to fully function)

Gyration Go Mouse

Gyration Go Mobile keyboard

Gyration Go Full size keyboard

Gyration Media Center Universal Remote Control

Gyration GyroTransport

Programming the Remote

The RCU can be programmed to operate many brands of IR controllable devices via the IR functions of the RCU. Devices include TVs, DVD Players, Cable/Satellite Boxes, etc. Please see the Remote Code List for all devices supported.

Find Out If You Need to Program the Remote

To determine whether the remote needs to be programmed to operate your device, do the following (using the TV as an example)

1. Turn on the TV.
2. Point the remote at the TV.
3. Press the TV button.
4. Press the ON/OFF button to see if the TV responds. If the TV doesn't respond, you must program the remote to operate it.

Programming Methods

There are two ways to program the remote control to operate other components: Automatic Code Search and Direct Entry.

Using Automatic Code Search

The following instructions can be used to program the RCU to operate each of your components. If you want to stop the automatic code search without programming any of your components, press and hold **CLEAR (*)** until the indicator on the RCU turns off.

1. Turn on the device you want to operate (TV, DVD player, etc.)
2. Press and hold the device button you want to program (**TV, AUX, etc.**). While holding the device button, press and hold ON/OFF button until the device button on the RCU turns on, then release both buttons.
3. Point the remote at the device.
4. Press and release **PLAY**, then wait 5 seconds or until the device button stops flashing. At this point the RCU is searching for the correct code to program. If, after 5 seconds, the device you want to operate does not turn off, press **PLAY** again to tell the RCU to search the next set of codes. Continue pressing and releasing **PLAY** until the device turns off or you have searched through all of the codes. The device buttons flash when all codes have been searched, the device button turns off, and the RCU exits the *Automatic Code Search* mode.

Programming Methods (continued)

If the component you want to control *does* turn off:

1. Press and release **REVERSE**, then wait 2 seconds. Repeat this step until the component turns back on.
2. To finish, press and hold **STOP** until the component button on the RCU turns off. The RCU will automatically exit the *Automatic Code Search* mode.

Using Direct Entry

1. Turn on the device you want to operate (TV, DVD player, etc.)
2. Look up the brand and code number(s) for the device in the Remote Code List at the end of this booklet.
3. Press and hold the device button you want to program (**TV, AUX, etc.**) on the RCU.
4. Enter the 4-digit code from the Remote Code List. If all the mode buttons flash, you have either entered an invalid code or the button isn't programmable.
5. Release the device button, point the RCU at the device, and then press the ON/OFF button to see if the device responds to the command. If it doesn't, try pressing the device button and then ON/OFF again.
 - If you get no response, repeat these steps using the next code listed for your brand, until the device responds to the remote commands.
 - If you try all the codes for your device brand and none work, try the automatic code search method. If automatic code search doesn't find the code, the remote is not compatible with your component.

Because the RCU controls more than one device, you must first "tell" it which device you wish to operate. For example, if you wish to operate the TV, you must first press the **TV** mode button on the RCU to put it in the TV mode.

The RCU stays in the chosen mode until you change it. If the RCU is in the TV mode, you must change the mode in order to operate other components. For example, if you are in the TV mode and you wish to turn off the Cable Box, you must first press the **CAB/SAT** button then the On/Off button. Return to the TV mode by pressing the TV mode button.

Programming Methods (continued)

Volume Punch Through

The Volume Punch Through feature allows you to control the volume without exiting the current mode. When Punch Through is enabled, the **VOL+**, **VOL-**, and **MUTE** keys will always control the Punch Through device. By default the TV is the Volume Punch Through device. To disable Volume Punch Through, see the "Disabling Volume Punch Through" Section below.

Note: Volume Punch Through only applies to the three IR Mode Device Buttons (**TV**, **CAB/SAT**, and **AUX**).

Note: The remote must be programmed via Automatic Code Search or Direct Entry before enabling Volume Punch Through.

To change the Volume Punch Through device or enable Volume Punch Through:

1. Press and hold the device button of the device you want to Punch Through (**TV**, **AUX**, etc.) on the RCU.
2. Press and hold the **VOL-** button until the device button on the RCU turns on, then release both buttons.

Volume Punch Through is now enabled for the selected device.

Disabling Volume Punch Through

To disable Volume Punch Through:

1. Press and hold the **VOL-** button (the device button of the Volume Punch Through lights).
2. While holding the **VOL-** button, enter the code, 0000, using the number buttons. All device buttons turn on for 2 seconds and then turn off.

Note: If an invalid button is pressed, all device buttons blink 4 times and turn off. At this point, you must start over.

Once Volume Punch Through is disabled, the **VOL+**, **VOL-**, and **MUTE** keys will control the device currently selected by the Device button (**PC**, **TV**, **CAB/SAT**, or **AUX**). To enable Volume Punch Through, see the "Volume Punch Through" Section above.

Learning

The RCU has the ability to *learn* the commands of other remote control units, such as TV remotes or VCR remotes. This allows the most-used commands on those remotes to be combined on the RCU. These original remote control units are also known as source remotes. Learning is not active in the PC mode.

Learning Tips

1. All learned functions for a mode can be erased if you program a different device to that mode.
2. Perform the learning process in low-light areas because too much ambient light might cause interference with the infrared (IR) signals of the remotes.
3. Use fresh batteries in both the Media Center and PC RCU and the original remote.

Code Learning

Codes from the Remote Code List include basic functionality for each component they control. Once you have programmed in the code for your specific component (using either the Automatic Code Search or Direct Entry method), you can customize the RCU to perform certain functions from your original remote(s) that were not embedded in the preset code. The RCU has the ability to learn and store commands from your original remote(s) under the mode(s) of your choice.

Learning Commands

For the following section, the TV remote control unit will be used as an example. Learning from other types of remotes will be done in a similar way.

- 1) First press and hold the mode button on the RCU for the component remote you are learning from (the TV button on the RCU, for example) then press and hold the **RECORD** button on the RCU.
- 2) Keep pressing both buttons until the device mode button light turns off, flashes, and turns off. Release both buttons.



Remotes should not be more than 2" apart



Learning (continued)

3) On the RCU, press and release the button where you want to store the new function (the component button turns off and then back on; a short flash).

Note: If you press an invalid button on the remote, the device mode button flashes 4 times to alert you. You'll have to repeat step 3.

4) Position the source remote facing the bottom of the RCU no more than 2 inches apart. Press and hold the button of the source remote that has the functionality you are recording. Keep pressing the button until the RCU device mode button light turns off and back on (the source function has been saved to the TV mode on the RCU).

Note: If all device mode buttons flash 4 times, the function wasn't learned. Try again starting with Step 3.

5) The RCU remains in the "learning mode" so you can continue adding functions to different buttons by repeating steps 3 and 4.

6) Press **CLEAR** to exit the learning mode.

Clearing an Individual Learned Function

To delete a learned button function, use the procedure below.

1. Press and hold the component mode button (the component button lights). Then press and hold the **CLEAR** button for 3 seconds. Hold both buttons depressed until the component mode button flashes.

2. Release both buttons. The component mode button turns on indicating that the RCU is now in the Clear Learned Function mode for that component.

3. Press and release the button where learning is to be cleared. The component mode button blinks off then back on indicating that the function was cleared successfully.

4. Repeat Steps 1 through 3 until all the buttons' learned functions have been cleared.

Note: If an invalid button is pressed, the component mode button flashes 4 times, the selected component button stays on, and the RCU remains in Clear Learned Function mode. Repeat Step 3 to continue the clearing process.

5. Press the **CLEAR** button to return the RCU to normal operation.

Deleting All Learned Functions

To delete all learned functions at one time, use the procedure below.

1. Press and hold the **CLEAR** button (the current component button lights). Then press and hold the **ON/OFF** button (component button light turns off for 3 seconds, flashes, turns on and off) while continuing to hold the **CLEAR** button.

2. Release both buttons (current component button turns on).

3. Press any component button to delete all learned functions in all modes. The RCU automatically exits this clearing mode.

Note: Pressing the **CLEAR** button while in this mode will not delete the learning functions, but it will exit this delete mode.

Music Mode

Music mode is a revolutionary new way for you to search through and play your favorite songs that you have already setup on your Windows PC. It links directly to your Windows Media Player Audio library so that you can browse through your audio files and listen to your music without going to your computer.

Note: This mode of the RCU is intended for use on the Windows operating system using the Windows Media Player application (version 10 or higher). Operation on other operating systems has not been verified.

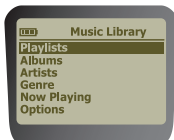
Ultra R4000 Service Application

The RCU comes with a software application that runs in the background (as a "service") on the computer (PC) and interfaces to the Windows Media Player music database. The application communicates the music database information to the RF transceiver attached to the computer. The information is then transmitted via RF to the RCU and displayed on the display. The Ultra R4000 Software Service Application or "Music Software service" is required for operation of the Music display. This Software service is provided via an installation CD.

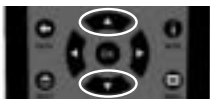
This application can be enabled/disabled manually by the user. The application is set to "enabled" by default (upon system boot). Disabling the service has no effect on normal RCU operation (TV, PC, CAB/SAT, and AUX modes), but will make the display inoperable.

Music Display Navigation

When you press the Music Display button ( button) the Display powers up and displays the top level menu structure. (If service application is running and within range, see the Troubleshooting section for more details).



To move up and down the screen, use the **UP** and **DOWN** arrow keys.

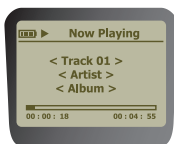


To enter a menu level, use either the right (or OK) button. To back out of a level, use the left (or Back) button. You can play the whole album by pressing the Play button at this level, or enter the album and select a specific song.

Note: As you navigate through the menu the heading changes on the top line.





While a song is playing, the MP3 Tag information (called Metadata) will be shown on the display along with a progress bar, the current running time and the time left for that song.



Troubleshooting

Adjusting the Contrast on the Display

To adjust the contrast on the Display, perform the following steps:

1. With the Display screen active, press and hold the  button located beneath the Display screen.
2. Continue to hold the  button after the Display screen turns off for 5 more seconds.
3. The Display Contrast adjustment screen will appear.
4. Use the menu navigation up and down arrows to adjust to the desired appearance.
5. Press any button to exit.
6. If no button is pressed, the display will time out in about 5 seconds.

Note: The contrast settings range from 0 (lightest) to 21 (darkest).

Note: The contrast value is stored, even when removing the batteries.




Reinstalling the Ultra R4000 Installation Software

To reinstall the Ultra R4000 Installation Software service application, perform the following steps:

1. With Windows® running on your computer, insert the CD into your CD/DVD-ROM drive.
2. If the CD window does not open automatically, double-click the My Computer icon on your desktop, and then double-click the CD/DVD-ROM drive containing the CD.
3. Locate the install package provided on the CD for your Ultra R4000 Motion-Sensing Remote Control.
4. Follow the instructions provided by the CD to extract and install the application.

Troubleshooting

Common Problems and Solutions

Cursor Control Issues		
Problem	Cause	Solution
The Display screen does not match or show the updates to the Windows Media Player audio library.	The Display Software Service Application did not update correctly.	Restart the Display Software Service Application, by clicking the Ultra R4000 Motion-Sensing Remote Control (green) icon on the Windows Taskbar, and clicking "Restart."
	The Display screens needs to be manually refreshed.	Press the  button to return to the Main Menu.
	The Display screens needs to be manually refreshed.	Use the menu navigation buttons to move up or down from the current level in the Display screen.
The Menu Navigation buttons are non-responsive while the Display screen is active.	The Display Software Service Application has lost contact with the remote control.	Refresh the Display screen by pressing the  button for three seconds to shut off the Display screen, then pressing the  button again to turn the Display screen back on.
	The remote control is out of range with the computer.	Place the remote control closer to the computer.
The cursor does not move when the "Motion by Gyration" button is pressed.	The remote control and computer are not connected.	Connect the Ultra R4000 Motion-Sensing Remote Control with your computer.
	The batteries are low.	Replace the batteries.

Troubleshooting

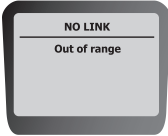
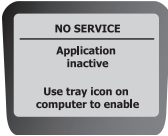
Common Problems and Solutions

Cursor Control Issues		
Problem	Cause	Solution
The cursor movement is choppy or erratic.	There may be radio interference near the computer.	Move any electronic devices away from PC (i.e., speakers, radio, etc.).
The cursor moves too fast or too slow.	The speed or acceleration is not set properly.	Change the cursor tracking speed under the Mouse settings in the Control Panel.
The cursor drifts on the screen.	The remote control sensor may require self-recalibration.	Place the remote control on a flat surface for 5 or more seconds. The gyroscope will perform a self-steady routine to identify and eliminate drift.
The Power/Standby button does not wake the computer out of Standby mode.	If the BIOS setting for Wake from USB is disabled, the system will not turn back on via the remote control.	Enable the wake from USB option in the system BIOS. For information on accessing the system BIOS, see your Owner's Manual.
The Power/Standby button does not wake the computer out of Standby mode.	If the computer is placed into Hibernation or Shutdown mode, and then the AC power is removed, the internal receiver loses its power and cannot wake the system (even if AC power is reapplied).	Turn on the computer manually using the system Power button.
	If the BIOS setting for Wake from USB is disabled, the system will not turn back on via the remote control.	Enable the wake from USB option in the system BIOS. For information on accessing the system BIOS, see your Owner's Manual.

Troubleshooting

Common Problems and Solutions

Cursor Control Issues

Problem	Cause	Solution
<p>The text "NO LINK" is displayed on the Display screen.</p> 	<p>The remote control and computer are not connected.</p>	<p>Connect the Ultra R4000 Remote with your computer.</p>
<p>The text "NO SERVICE" is displayed on the Display screen.</p> 	<p>There may be radio interference near the computer.</p> <p>The remote control is out of range with the computer.</p> <p>The Display Software Service Application is not enabled.</p>	<p>Move any electronic devices away from PC (i.e., speakers, radio, etc.).</p> <p>Place the remote control closer to the computer.</p> <p>To re-enable the Display Software Service Application, click the Ultra R4000 Remote Control (red) icon on the Windows Taskbar and click "Start."</p>
<p>The text on the Display Screen is in English (if applicable).</p>	<p>All text in the remote control Display screens will be in English until a successful connection to the computer has been made.</p>	<p>Connect the Ultra R4000 Motion-Sensing Remote with your computer.</p>

Remote Code List

TV Brand	Code			
Digital TV				
Zenith	1261			
HDTV				
Apex	1278			
Daewoo	1284			
JVC	1254	1422		
Mitsubishi	1268	1271		
Panasonic	1272	1283	1476	
Philips	1274	1275	1276	1279
Samsung	1330			
Sharp	1285			
Sony	1201	1274	1421	1468 1472
Thomson	1419			
Toshiba	1420			
Zenith	1286	1287		
HDTV Monitor				
Brilliant	1469			
Panasonic	1470			
Sears	1469			
Zenith	1261			
HDTV Projection Monitor				
Panasonic	1257	1273	1471	
Pioneer	1280			
HDTV Projection TV				
Sony	1274			
HT Projector				
Sony	1262	1265		
LCD HDTV				
Samsung	1362			
Zenith	1281			
LCD TV				
Benq	1228			

Remote Code List

TV Brand	Code						
LCD TV							
ESA	1220						
NET-TV	1230						
Panasonic	1205	1206					
Philips	1207	1219					
Polaroid	1209	1216	1217				
RCA	1346						
Samsung	1202	1204	1212	1213			
Sharp	1200						
Sony	1201						
Sylvania	1220						
Toshiba	1203	1211					
Viewsonic	1208	1210	1214	1221	1222	1223	1224
	1225	1226	1227				
LCD TV/PC Monitor							
Sampo	1473						
LCD TV/Tuner Combo							
Polaroid	1209						
Plasma Display							
Acer	1239						
Pioneer	1244						
Samsung	1202	1231	1245				
Toshiba	1236	1237					
Viewsonic	1246						
Plasma TV							
Gateway	1240						
Magnavox	1474	1475					
Viewsonic	1238						
Plasma TV Monitor							
Fujitsu	1232	1233	1234	1235			
Hitachi	1241	1478					
NEC	1242						

Remote Code List

TV Brand	Code						
Plasma TV Monitor							
Panasonic	1243						
Pioneer	1277						
Samsung	1270						
Sony	1477						
Zenith	1247						
Projection HDTV							
Sharp	1264	1282					
Projection Monitor							
Pioneer	1258						
Projection TV							
Hitachi	1251	1256	1259	1260			
JVC	1254	1255					
Mitsubishi	1248						
Panasonic	1257	1329	1334				
Samsung	1252	1270	1480				
Sharp	1270						
Sony	1201	1263					
Toshiba	1249	1253	1479				
Zenith	1266						
TV							
Abex	1147						
Admiral	1004	1148					
Advent	1410						
Adventura	1149						
Aiko	1018						
Aiwa	1425	1435					
Akai	1005						
Alleron	1045						
Amtron	1039						
Anam National	1006	1039	1163	1164	1165		
AOC	1007	1008	1009	1010	1150	1151	1166

Remote Code List

TV Brand	Code									
TV										
Apex	1296	1341	1423	1426						
Audiovox	1039									
Belcor	1007									
Bell & Howell	1004	1047	1068							
Beng	1427									
Bradford	1039									
Brockwood	1007									
Broksonic	1203	1250								
Candle	1007	1009	1011	1149						
Carver	1418									
Celebrity	1005									
Centurion	1012									
Citizen	1007	1009	1011	1018	1039	1068	1095	1146	1173	
Colortyme	1007	1009	1013							
Concerto	1007	1009								
Contec/Cony	1014	1015	1016	1039						
Craig	1039									
Crosley	1418									
Crown	1039	1058								
CTX	1336									
Curtis Mathes	1003	1007	1009	1017	1047	1068	1095	1146	1173	
	1180	1185	1187	1188	1418					
CXC	1039									
Daewoo	1007	1008	1009	1018	1019	1020	1112	1146	1161	
	1290	1332	1428	1429						
Daytron	1007	1009	1146							
Dell	1001	1002								
Dimensia	1003	1187	1188							
Dumont	1007	1131								
Durabrand	1327									
Electroband	1005									

Remote Code List

TV Brand	Code									
TV										
Electrograph	1412									
Electrohome	1005	1006	1007	1009	1021	1022	1023			
Emerson	1007	1009	1014	1024	1025	1026	1027	1028	1029	
	1030	1031	1032	1033	1034	1035	1036	1037	1038	
	1039	1040	1041	1042	1043	1044	1045	1047	1068	
	1110	1146	1152	1153	1162	1181	1189	1197	1415	
	1416	1417	1429							
Envision	1007	1009								
Epson	1409									
Fisher	1046	1047	1048	1068	1154	1337				
Fujitsu	1045									
Funai	1039	1045								
Futuretech	1039									
Gateway	1412									
GE	1003	1006	1007	1009	1023	1049	1050	1051	1078	
	1141	1142	1143	1155	1174	1187	1188	1191	1296	
	1317	1430								
Gibraltar	1007	1053	1131							
Goldstar	1007	1008	1009	1014	1021	1052	1053	1054	1135	
	1136	1146	1147							
Grundy	1039	1045								
Hallmark	1007	1009								
Harvard	1039									
Hitachi	1007	1009	1014	1015	1016	1055	1056	1057	1118	
	1119	1120	1121	1122	1123	1124	1125	1126	1127	
	1128	1129	1130	1153	1167	1179	1182	1193	1194	
	1195	1196	1197	1256	1269	1292	1359	1363	1365	
	1370	1401	1424	1431						
IMA	1039									
Infinity	1058	1418								
Janeil	1149									

Remote Code List

TV Brand	Code										
TV											
JBL	1058	1418									
JC Penney	1003	1007	1008	1009	1011	1015	1023	1049	1050		
	1053	1054	1066	1067	1078	1094	1095	1113	1146		
	1147	1155	1187	1188	1191						
JCB	1005										
Jensen	1007	1009	1218	1407	1408	1432					
JVC	1014	1015	1016	1050	1056	1059	1060	1061	1137		
	1138	1156	1181	1199	1254	1293	1324	1345	1352		
	1369	1378	1393	1397	1400	1433	1434				
Kawasho	1005	1007	1009								
Kenwood	1007	1009	1021								
Klass Novabeam	1039	1062	1063	1149							
Konka	1413	1414									
KTV	1039	1064	1146	1152							
LG	1008										
Loewe	1058										
Logik	1004										
Luxman	1007	1009									
LXI	1003	1009	1047	1058	1065	1066	1067	1068	1155		
	1171	1187	1188	1191	1418						
Maganvox	1300	1399	1437								
Magnavox	1007	1009	1011	1021	1058	1062	1063	1069	1070		
	1071	1079	1115	1116	1117	1186	1198	1301	1302		
	1418	1436	1437	1438	1439						
Majestic	1004										
Marantz	1007	1009	1055	1058	1072	1418					
Maxent	1412										
Megatron	1009	1055									
Memorex	1004	1008	1009	1047	1068	1440	1441				
MGA	1007	1008	1009	1021	1023	1048	1073	1074			
Midland	1050	1051	1131	1146	1147	1155	1191				

Remote Code List

TV Brand	Code									
TV										
Minutz	1049									
Mitsubishi	1007	1008	1009	1021	1023	1048	1073	1074	1075	
	1111	1319	1328	1358						
Montgomery Ward	1004									
Motorola	1006	1148								
MTC	1007	1008	1009	1095						
Multitech	1039									
Multivision	1076									
NAD	1009	1065	1066	1067	1157	1179				
NEC	1006	1007	1008	1009	1013					
NefTV	1412									
Nikko	1009	1018								
Norcent	1215	1406								
NTC	1018									
Onwa	1039									
Optimus	1157	1179								
Optonica	1086	1148								
Orion	1036	1162	1327							
Panasonic	1006	1050	1058	1145	1175	1184	1294	1312	1314	
	1334	1335	1344	1350	1351	1367	1377	1380	1382	
	1384	1385	1386	1404	1442	1454				
Philco	1006	1007	1008	1009	1011	1014	1021	1058	1062	
	1063	1069	1071	1418	1441					
Philips	1006	1007	1011	1014	1021	1058	1062	1063	1069	
	1077	1078	1079	1080	1229	1295	1299	1301	1302	
	1316	1325	1355	1356	1357	1360	1361	1364	1368	
	1373	1374	1375	1376	1379	1395	1418	1443	1444	
	1445	1446	1447	1450	1451	1452	1453			
Philips	1295	1300	1301	1316	1437	1438	1445	1446	1447	
Magnavox	1448	1449	1450	1451	1452	1453				
Pilot	1007	1146								

Remote Code List

TV Brand	Code									
Pioneer	1007	1009	1081	1082	1083	1153	1157	1179	1197	1372
Portland	1007	1008	1009	1018	1146					
Price Club	1095									
Prima	1467									
Prism	1050									
Proscan	1003	1155	1187	1188	1191					
Proton	1007	1009	1014	1084						
Pulsar	1007	1131								
Quasar	1006	1050	1064	1085	1175	1294	1394	1454	1455	
Radio Shack	1047	1068	1187	1188						
Radio Shack/ Realistic	1003	1007	1009	1014	1039	1047	1068	1086	1146	1147
RCA	1000	1003	1006	1007	1008	1009	1010	1021	1087	1088
	1088	1089	1090	1091	1092	1093	1114	1153	1155	1158
	1158	1159	1161	1168	1176	1180	1183	1185	1187	1188
	1188	1190	1191	1197	1289	1298	1303	1310	1317	1326
	1326	1332	1333	1342	1371	1390	1391	1392		
Realistic	1047	1068	1187	1188						
Runco	1131									
Sampo	1007	1009	1146	1147	1338	1412				
Samsung	1007	1008	1009	1014	1017	1021	1094	1095	1096	1146
	1146	1147	1169	1192	1252	1270	1308	1326	1330	1331
	1331	1353	1362	1366	1387					
Sansui	1162	1327	1348							
Sanyo	1007	1046	1047	1068	1074	1097	1098	1144	1154	
Scott	1009									
Scott	1007	1009	1014	1025	1036	1039	1045			
Sears	1003	1007	1009	1015	1016	1021	1045	1046	1047	1048
	1048	1060	1065	1066	1067	1068	1099	1100	1154	1155
	1155	1160	1187	1188	1191	1418				

Remote Code List

TV Brand	Code									
Sharp	1007	1009	1014	1027	1030	1086	1101	1102	1103	1109
	1109	1146	1148	1318	1323	1391	1398	1402	1456	
Shogun	1007									
Signature	1004	1104								
Simpson	1011									
Sony	1005	1170	1177	1178	1201	1263	1304	1306	1315	1457
	1457	1458	1459	1460						
Soundesign	1007	1009	1011	1039	1045					
Squareview	1160									
SSS	1007	1039								
Starlite	1039									
Supre-Macy	1149									
Supreme	1005									
Sylvania	1007	1009	1011	1021	1058	1062	1063	1069	1070	1071
	1071	1079	1105	1140	1220	1311	1343	1347	1381	1383
	1383	1418	1447	1461	1462					
Symphonic	1034	1039	1160	1220	1463					
Tandy	1148									
Tatung	1006									
Technics	1050									
Techwood	1007	1009	1050							
Teknika	1004	1007	1008	1009	1011	1014	1015	1016	1018	1039
	1039	1045	1070	1095	1145	1146	1175	1184	1418	
Telecaption	1106									
TMK	1007	1009								
Toshiba	1047	1065	1066	1067	1068	1095	1099	1106	1107	1139
	1139	1140	1249	1253	1297	1305	1307	1309	1313	1321
	1321	1322	1339	1340	1349	1388	1396	1405	1411	1464
	1464	1465	1466							
Totevision	1146									
Universal	1049	1078								

Remote Code List

TV Brand	Code									
TV										
Victor	1060	1156								
Vidikron	1418									
Vidtech	1007	1008	1009							
Viewsonic	1412									
Viking	1149									
Wards	1003	1004	1007	1008	1009	1021	1025	1034	1045	
	1049	1058	1062	1063	1069	1070	1078	1079	1086	
	1108	1187	1188	1418						
White Westinghouse	1429									
Yamaha	1007	1008	1009	1021						
Zenith	1004	1007	1131	1132	1133	1134	1172	1251	1261	
	1286	1288	1291	1320	1354	1389	1403			
TV/DVD Combo										
Apex	1341									
Broksonic	1203									
JVC	1345	1378								
Panasonic	1377									
Philips	1229	1376	1379							
RCA	1342	1346								
Sansui	1348									
Sylvania	1343									
Toshiba	1203	1339	1340							
TV/DVD/Tuner Combo										
Panasonic	1344									
TV/DVD/VCR Combo										
Panasonic	1382									
RCA	1333									
Samsung	1331									
Sylvania	1347	1381	1383							
Toshiba	1349									

Remote Code List

TV Brand	Code					
TV/DVD/VCR Tuner Combo						
Panasonic	1350	1380				
TV/VCR Combo						
Broksonic	1250					
Daewoo	1290					
Emerson	1415					
GE	1317					
Hitachi	1269	1401				
JVC	1254	1293	1393	1397	1400	
Maganvox	1399					
Magnavox	1302					
Panasonic	1384	1404				
Philips	1302					
Quasar	1294	1394				
RCA	1298	1310	1326	1390	1391	1392
Samsung	1326	1387				
Sharp	1323	1391	1398	1402		
Sylvania	1311					
Toshiba	1297	1322	1388	1396	1405	
Zenith	1291	1389	1403			
TV/VCR/Tuner Combo						
Panasonic	1294	1314	1385	1386		
Philips	1395					
TV-DVR						
Panasonic	1267					
TV-DVD Brand		TV Code	DVD Code	Tuner Code		
TV/DVD Combo						
Apex	1341	3151				
Broksonic	1203	3160				
JVC	1345	3156				
	1378	3185				

Remote Code List

TV-DVD Brand	TV Code	DVD Code	Tuner Code
TV/DVD Combo			
Panasonic	1377	3184	
Philips	1229	3147	
	1376	3158	
	1379	3186	
RCA	1342	3152	
	1346	3157	
Sansui	1348	3160	
Sylvania	1343	3153	
Toshiba	1203	3149	
	1339	3150	
	1340	3155	
TV/DVD Tuner Combo			
Panasonic	1344	3154	4124
TV-VCR-TUNER Brand			
TV/VCR Combo			
Broksonic		1250	2095
Daewoo		1290	2096
GE		1317	2024
Hitachi		1269	2085
		1401	2097
		1254	2077
JVC		1422	2072
		1293	2013
		1393	2075
		1397	2080
		1400	2083
Magnavox		1302	2020
		1399	2082
Panasonic		1384	2067
		1404	2089

Remote Code List

TV-VCR-TUNER Brand	TV Code	DVD Code	Tuner Code
TV/VCR Combo			
Philips	1302	2018	
	1302	2020	
Quasar	1294	2014	
	1394	2076	
RCA	1298	2017	
	1310	2017	
	1326	2060	
	1390	2098	
	1391	2073	
	1392	2074	
	1387	2069	
Samsung	1326	2060	
	1387	2069	
Sharp	1323	2061	
	1391	2073	
	1398	2081	
	1402	2087	
Sylvania	1311	2021	
Toshiba	1297	2016	
	1322	2025	
	1388	2070	
	1396	2079	
	1396	2084	
Zenith	1405	2090	
	1291	2012	
	1389	2071	
	1389	2086	
	1403	2088	

Remote Code List

TV-VCR-TUNER Brand	TV Code	DVD Code	Tuner Code
TV/VCR Tuner Combo			
Panasonic	1294	2014	4125
	1294	2068	4123
	1294	2023	4121
	1294	2019	4123
	1314	2022	4122
	1385	2019	4150
	1386	2014	4151
	1314	2022	4182
Philips	1395	2078	4152
TV-DVD-VCR TUNER Brand			
Brand	TV Code	DVD Code	VCR Tuner Code
TV/DVD/VCR Combo			
Panasonic	1382	3188	2092
RCA	1333	3165	2102
Samsung	1331	3166	2103
Sylvania	1347	3163	2101
	1381	3187	2091
	1383	3189	2093
Toshiba	1349	3161	2105
	1349	3161	2106
TV/DVD/VCR Tuner Combo			
Panasonic	1350	3162	2107 4126
	1380	3239	2108 4153
SATELLITE Brand			
Brand	Code		
Satellite DVR			
DISH Network	5022		
Hughes	5029		
Philips	5021	5029	
RCA	5017	5029	

Remote Code List

SATELLITE Brand	Code			
Satellite DVR				
Samsung	5029			
Sony	5016	5020		
Zenith	5018			
Satellite				
DIRECTV	5015			
Express Vu	5004			
GE	5001	5002	5019	
Hughes	5007			
JVC	5003			
Mitsubishi	5007			
Panasonic	5008	5011		
Philips	5014			
Pioneer	5027			
Proscan	5001	5002		
RCA	5000	5001	5002	5024 5025 5028
Samsung	5010	5026		
Sony	5009	5023		
Star Choice	5005			
Toshiba	5012			
Zenith	5013			
HDTV Tuner				
Panasonic	5029			
RCA	5006			
DTV Decoder				
Sharp	5006			
CABLE Brand				
Brand	Code			
Cable Box				
ABC	5036			
Adelphia	5042			
Cable Vision	5043			

Remote Code List

CABLE Brand	Code			
Cable Box				
Comcast	5041	5044	5045	
Contec	5035			
COX	5031			
GE	5036			
Gemini	5034			
General Instruments	5033	5036	5044	
Hamlin	5032			
Hitachi	5036			
Jerrold	5033	5036		
Motorola	5040	5045	5031	
Philips	5034			
Proscan	5036			
RCA	5033			
Rembrandt	5036			
Scientific Atlanta	5037	5038	5042	
Signature	5036			
Sony	5043			
Time Warner	5030			
View Star	5035			
Cable				
Comcast	5039			
Cable-DVR				
Motorola	5041			
VCR Brand	Code			
DVD/VCR Combo				
Broksonic	2034			
Daewoo	2054			
Emerson	2099			
Go Video	2047	2048	2055	2056
Hitachi	2049	2052		

Remote Code List

VCR Brand	Code				
DVD/VCR Combo					
JVC	2031	2039	2040		
Magnavox	2053				
Panasonic	2035	2057			
Philips	2038				
Polaroid	2059				
RCA	2030	2051			
Samsung	2029	2032	2033	2044	2050
Sanyo	2100				
Sharp	2042	2058			
Sony	2028 2043				
Toshiba	2036	2037	2041		
Zenith	2045	2046			
TV/DVD/VCR Combo					
Panasonic	2092				
RCA	2102				
Samsung	2103				
Sharp	2104				
Sylvania	2091	2093	2101		
Toshiba	2105	2106			
TV/DVD/VCR/Tuner Combo					
Panasonic	2107	2108			
TV/VCR Combo					
Aiwa	2094				
Broksonic	2095				
Daewoo	2096				
GE	2024				
Hitachi	2085	2097			
JVC	2013	2072	2075	2077	2080 2083
Magnavox	2082				
Magnavox	2020				
Panasonic	2067	2089			

Remote Code List

VCR Brand	Code							
TV/VCR Combo								
Philips	2018	2020						
Quasar	2014	2076						
RCA	2017	2069	2073	2074	2098			
Samsung	2060	2069						
Sharp	2061	2073	2081	2087				
Sylvania	2021							
Toshiba	2016	2025	2070	2079	2084	2090		
Zenith	2012	2071	2086	2088				
TV/VCR/Tuner Combo								
Panasonic	2014	2019	2022	2023	2068			
Philips	2078							
VCR								
Aiwa	2094							
Broksonic	2034	2095						
Daewoo	2054	2096						
Emerson	2099							
GE	2024							
Go Video	2047	2048	2055	2056	2065			
Hitachi	2002	2010	2049	2052	2063	2064	2085	2097
JVC	2013	2031	2039	2040	2072	2075	2077	2080
	2083							
Maganvox	2082							
Magnavox	2001	2020	2026	2053				
Memorex	2027							
Mitsubishi	2066							
Panasonic	2014	2019	2022	2023	2035	2057	2067	2068
	2089	2092	2107	2108				
Philips	2009	2018	2020	2038	2078			
Philips Magnavox	2015							
Polaroid	2059							
Quasar	2003	2005	2014	2076				

Remote Code List

VCR Brand	Code							
VCR								
RCA	2000	2004	2017	2030	2051	2069	2073	2074
	2098	2102						
Samsung	2029	2032	2033	2044	2050	2060	2069	2103
Sanyo	2100							
Sharp	2042	2058	2061	2073	2081	2087	2104	
Sony	2007	2008	2028	2043				
Sylvania	2021	2091	2093	2101				
Toshiba	2006	2011	2016	2025	2036	2037	2041	2062
	2070	2079	2084	2090	2105	2106		
Zenith	2012	2045	2046	2071	2086	2088		
DVD-VCR								
Brand	VCR Code	DVD Code						
DVD/VCR Combo								
Broksonic	2034	3127						
Daewoo	2054	3142						
Emerson	2099	3147						
Go Video	2047	3139						
	2048	3138						
	2055	3143						
	2056	3144						
Hitachi	2049	3140						
	2052	3140						
JVC	2031	3124						
	2039	3132						
	2040	3133						
Magnavox	2053	3131						
Panasonic	2035	3128						
	2057	3145						
Philips	2038	3131						
Polaroid	2059	3146						

Remote Code List

DVD-VCR Brand	VCR Code	DVD Code					
DVD/VCR Combo							
RCA	2030	3123					
	2051	3136					
Samsung	2029	3122					
	2032	3125					
	2033	3126					
	2044	3137					
	2050	3141					
Sanyo	2100	3148					
Sharp	2042	3134					
	2058	3134					
	2104	3164					
Sony	2028	3121					
	2043	3135					
Toshiba	2036	3129					
	2037	3140					
	2041	3043					
Zenith	2045	3138					
	2046	3138					
DVD Brand	Code						
DVD							
Aiwa	3002						
Apex	3008	3009	3010	3046	3071	3151	
BOSE	3011	3159					
Broksonic	3127	3160					
Clarion	3012						
Classic	3013						
Daewoo	3075	3142					
Denon	3050	3094	3100	3179	3208	3214 3217 3226	
	3231						
Emerson	3014	3015	3147				

Remote Code List

DVD Brand	Code						
DVD							
Fisher	3016						
Funai	3015						
GE	3017	3067					
Go Video	3138	3139	3143	3144			
GPX	3018						
Harman/Kardon	3106						
Hitachi	3019	3034	3140	3215	3229		
JBL	3070						
JVC	3056	3064	3076	3079	3083	3103	3104 3124
	3132	3133	3156	3177	3185	3199	3220 3232
Kenwood	3021	3050	3218	3224	3225	3234	3235
Konka	3003						
Koss	3006	3085	3174				
Lasonic	3022						
Magnavox	3043	3081	3131	3204			
Marantz	3105						
Memorex	3023						
Mintek	3024						
Mitsubishi	3000	3069	3089	3095			
NAD	3014	3025					
Nakamichi	3026						
Norcent	3027						
Onkyo	3028	3175	3180				
Oritron	3032						
Panasonic	3029	3050	3051	3059	3128	3145	3154 3162
	3169	3172	3184	3188	3193	3196	3205 3239
Philips	3030	3043	3063	3065	3092	3096	3131 3147
	3158	3178	3186	3201	3209	3212	3213 3222
Pioneer	3031	3058	3080	3093	3099	3108	3176 3191
	3198	3211	3219	3221			
Polaroid	3146						

Remote Code List

DVD Brand	Code								
DVD									
Proscan	3090	3107							
Qwestar	3032								
RCA	3052	3061	3062	3067	3123	3136	3152	3157	
	3165	3202							
Sampo	3033								
Samsung	3034	3072	3122	3125	3126	3137	3141	3166	
	3194	3200	3207	3216	3228	3230			
Sansui	3035	3160							
Sanyo	3004	3148							
Sharp	3036	3037	3134	3164	3203				
Sherwood	3038								
Sony	3001	3039	3047	3048	3049	3053	3054	3055	
	3057	3060	3073	3074	3077	3086	3088	3091	
	3097	3098	3101	3102	3121	3135	3168	3170	
	3171	3173	3227						
Sylvania	3015	3153	3163	3187	3189				
Teac	3040								
Technics	3050								
Techwood	3041								
Toshiba	3042	3043	3066	3068	3078	3087	3129	3130	
	3149	3150	3155	3161	3181	3192	3197	3206	
	3238								
Venturer	3007								
Yamaha	3050	3190	3195	3210	3223	3233	3236		
Zenith	3014	3044	3138	3206					
DVD Recorder									
Irradio	3020								
Panasonic	3112	3114	3118						
Philips	3110	3113	3117	3119					
Pioneer	3115	3116							
RCA	3109								

Remote Code List

DVD Brand	Code								
DVD Recorder									
Sony	3111								
Yamaha	3120								
DVD/LD									
Pioneer	3031	3058							
DVD/VCR Combo									
Broksonic	3127								
Daewoo	3142								
Emerson	3147								
Go Video	3138	3139	3143	3144					
Hitachi	3140								
JVC	3124	3132	3133						
Magnavox	3131								
Panasonic	3128	3145							
Philips	3131								
Polaroid	3146								
RCA	3123	3136							
Samsung	3122	3125	3126	3137	3141				
Sanyo	3148								
Sharp	3134								
Sony	3121	3135							
Toshiba	3043	3129	3130						
Zenith	3138								
DVD-DVR									
RCA	3182								
Toshiba	3183								
HTIB									
BOSE	3159								
Denon	3179								
JBL	3005	3070							
JVC	3103	3104	3177						
Koss	3006	3174							

Remote Code List

DVD Brand	Code					
HTIB						
Onkyo	3175	3180				
Panasonic	3169	3172				
Philips	3178					
Pioneer	3108	3176				
RCA	3109					
Sony	3102	3167	3168	3170	3171	3173
Toshiba	3181					
Venturer	3007					
Network DVD						
Go Video	3237					
Portable DVD						
Audiovox	3084					
CyberHome	3045					
Panasonic	3050	3082				
Receiver						
JBL	3070					
TV/DVD Combo						
Apex	3151					
Broksonic	3160					
JVC	3156	3185				
Panasonic	3184					
Philips	3147	3158	3186			
RCA	3152	3157				
Sansui	3160					
Sylvania	3153					
Toshiba	3149	3150	3155			
TV/DVD/Tuner Combo						
Panasonic	3154					
TV/DVD/VCR Combo						
Panasonic	3188					
RCA	3165					

Remote Code List

DVD Brand	Code					
TV/DVD/VCR Combo						
Samsung	3166					
Sharp	3164					
Sylvania	3163	3187	3189			
Toshiba	3161					
TV/DVD/VCR/Tuner Combo						
Panasonic	3162	3239				
AUDIO Brand						
Amplifier						
Yamaha	4012	4015	4017			
Audio System						
Philips	4155					
Pioneer	4154					
RCA & Dimensia	4000					
Car Receiver/Tuner						
Pioneer	4030					
HTIB						
BOSE	4131					
Denon	4143					
JBL	4020	4146				
JVC	4028	4141	4149	4171		
Koss	4128	4138				
Onkyo	4139	4144				
Panasonic	4132	4136				
Philips	4142					
Pioneer	4035	4140				
RCA	4060					
Sony	4129	4130	4133	4135	4137	4147
Toshiba	4145					
Venturer	4134					

Remote Code List

AUDIO Brand	Code															
LCD TV																
Viewsonic	4000															
LCD TV/Tuner Combo																
Polaroid	4148															
Receiver																
JBL	4020															
Receiver/Amplifier																
Yamaha	4015 4017															
Receiver/Tuner																
Aiwa	4001		4069		4076		4117		4120							
BOSE	4127		4131													
Denon	4010		4022		4023		4056		4061		4062		4072		4077	
	4078		4090		4091		4093		4095		4100		4101		4103	
	4107		4143		4156		4158		4170		4174		4175		4177	
	4178															
	Harman Kardon 4172															
Harman Kardon	4006		4098		4118											
JBL	4006 4020															
JVC	4000		4025		4026		4027		4028		4058		4059		4083	
	4094		4110		4112		4141		4149		4167		4171			
Kenwood	4002		4042		4043		4044		4047		4054		4057		4071	
	4074		4086		4096		4162		4165		4173					
Marantz	4119															
Mitsubishi	4106		4161		4176											
Onkyo	4007		4048		4049		4051		4055		4065		4068		4070	
	4084		4088		4092		4097		4104		4105		4108		4109	
	4139		4144		4163		4164		4166		4168		4169		4181	
Optimus	4011															
Panasonic	4008		4081		4121		4132		4136		4160					
Philips	4142		4155													

Remote Code List

AUDIO Brand	Code																
Receiver/Tuner																	
Pioneer	4005		4029		4035		4037		4040		4050		4052		4067		
	4073		4075		4085		4087		4099		4140		4154		4180		
RCA	4003		4060														
Sherwood	4009																
Sony	4004		4014		4031		4032		4033		4034		4036		4038		
	4039		4041		4046		4063		4113		4114		4115		4116		
	4130		4137		4147		4179										
Technics	4008		4013		4016		4018		4019		4064		4066		4079		
	4082		4089		4157												
Toshiba	4145																
Wards	4005																
Yamaha	4005		4021		4024		4045		4053		4080		4102		4111		
	4159																
Tuner																	
Koss	4128		4138														
Panasonic	4122		4123		4124		4125		4126		4150		4151		4153		
	4182																
Philips	4152																
Polaroid	4148																
Sony	4133		4135														
Venturer	4134																
Tuner/CD Combo																	
BOSE	4127																
TV/DVD/ Tuner Combo																	
Panasonic	4124																
TV/DVD/VCR/Tuner Combo																	
Panasonic	4126		4153														
TV/VCR/Tuner Combo																	
Panasonic	4121		4122		4123		4125		4150		4151		4182				
Philips	4152																

Remote Code List

HTIB Brand	Audio Code	DVD Code
HTIB		
BOSE	4131	3159
Denon	4143	3179
JBL	4020	3070
	4146	3005
JVC	4028	3104
	4141	3177
	4149	3103
Koss	4128	3006
	4138	3174
Onkyo	4139	3175
	4144	3180
Panasonic	4132	3169
	4136	3172
Philips	4142	3178
Pioneer	4035	3108
	4140	3176
RCA	4060	3109
Sony	4129	3167
	4130	3168
	4133	3170
	4135	3171
	4137	3173
	4147	3102
Toshiba	4145	3181
Venturer	4134	3007
HDTV TUNER		
Brand	Code	
HDTV Tuner		
Panasonic	7000	
RCA	7001	7002

Remote Code List

DVR Brand	Code
Digital Network Recorder	
Sony	3244
DVR	
Panasonic	3242
Philips	3240
RCA	3243
Replay TV	3241
Tivo	3243
PVR	
Replay TV	3246
Tivo	3245

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