



GYR3101US



## UNIVERSAL MEDIA CENTER AND PC REMOTE CONTROL

United States Version

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## Introduction

This users' manual describes the operation of the Gyration Universal 4-in-1 (3 IR devices + 1 RF device) Media Center and PC Remote Control Unit (RCU). The RCU contains an embedded micro gyro for motion sensing and in-air control of 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.

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 Media Center and PC RCU requires two AA 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 \_\_\_\_\_

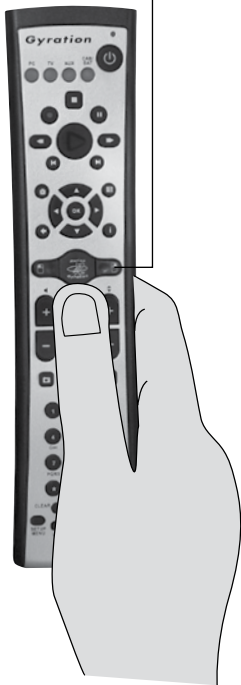
Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_

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 independent of which mode is selected on the RCU.



# Product Diagram

Button Cluster Locations	Button Cluster	Function	
	A	Remote Control Unit mode selection and power	Selects device mode ( <b>PC, TV, CAB/SAT, AUX</b> ). Powers on/off selected device.
	B	Transport control	AV control for selected transport or Windows Media Player, Windows Media Center, DVR, etc.
	C	Menu navigation	Menu navigation: up, down, left, right, OK. Includes <b>LIVE TV, GUIDE, BACK and MORE</b> .
	D	Gyro button cluster	Center button activates gyro for in-air cursor control. Outer buttons function like standard left and right mouse buttons.
	E	Volume and Channel control, (MCE Green Button), Mute	Volume up/down, channel up/down, Media Center ( <b>The Green Button</b> ) and volume mute.
	F	Media Center shortcuts	Shortcuts buttons include: <b>MY TV, MY PICTURES, MY MUSIC, MY VIDEOS</b> .
	G	Alphanumeric keypad	<b>0-9</b> keys with alpha characters, plus*, <b>←</b> , <b>→</b> , <b>CLEAR</b> and <b>ENTER</b>
	H	Setup and Device Control	<b>CONNECT, SETUP, LAST, DVD, MENU, INPUT</b>

# RCU Mode Selection



- |   |  |
|---|--|
| A | Puts RCU into <i>PC control mode</i> for communicating with Media Center PC via RF protocol.                     |
| B | Puts RCU into <i>TV control mode</i> for communicating with TV via IR protocol.                                  |
| C | Puts RCU into <i>AUX control mode</i> for communicating with additional learned device via IR protocol.          |
| D | Puts RCU into <i>CAB/SAT control mode</i> for communicating with cable or satellite set-top box via IR protocol. |

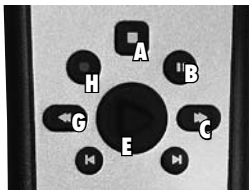
**E** **PC, TV, AUX or CAB/SAT mode:**  
Powers on/off the selected device.

**PC Mode:**  
Issues a standby command. If the system is active, the first button press puts it into standby mode and the second button press issues a power down command. If the system is already in standby mode, a button press may awaken\*.

**F** Transmit LED indicator for RF transmission

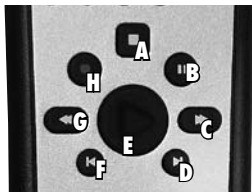
\*See *ON/OFF Switch section* for details.

# Transport Control



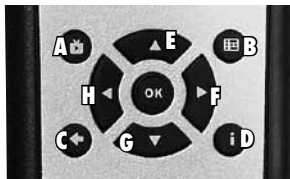
	PC, TV, AUX or CAB/SAT mode	PC Mode
A	Puts selected device into <i>Stop</i> mode, if supported	Stops media playback and positions pointer to start of media
B	Puts selected device into <i>Pause</i> mode, if supported	First button press pauses the media at present position. Subsequent button presses toggles between pause and playback at present position pointer.
C	Puts selected device into <i>Fast Forward</i> mode, 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</i> mode, 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



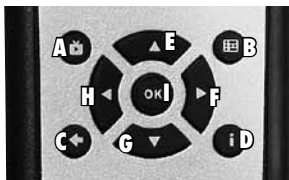
	PC, TV, AUX or CAB/SAT mode	PC Mode
F	Replay command, if supported by selected device	Move the position pointer back an increment: CD and Playlist: skips back to previous song. DVD: skips back to previous chapter. Slide show: skips back to previous picture. DVR skips back 7 seconds
G	Puts selected device into <i>Rewind</i> mode, if supported	First press speeds up the time base and reverses direction of the media stream to the first rewind value (3X). If media is a slide show, skips to previous picture. Second press cycles through the RWD 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, AUX or CAB/SAT mode	PC Mode
A	No action, or as defined by selected device	Brings live TV to the front to the last channel user was watching.
B	No action, or as defined by selected device	Invokes the on-screen TV program guide via Media Center
C	No action, or as defined by selected device	Goes back one location of the user interface back stack
D	No action, or as defined by selected device	Provide information if available for the focus point
E	Menu Navigation Up	Moves the focus point up one location, if at top of the screen takes no action
F	Menu Navigation Right	Moves focus point right one position, if at rightmost position takes no action
G	Menu Navigation Down	Moves the focus point down one location, if at bottom of the screen takes no action

## Menu Navigation



	TV, AUX or CAB/SAT mode	PC Mode
H	Menu Navigation Left	Moves focus point left one position, if at leftmost position goes back 1 page in the user interface stack
I	Performs action indicated by focus point	Performs action indicated by focus point

## 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	Go to Media Center Home page, launch Media Center if not running already	Go to Media Center Home page, launch Media Center if not running already
B	Increment the current channel by 1	Increment the current channel by 1. If in a list view, move forward 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

## Channel/Volume Control & Media Center Green Button

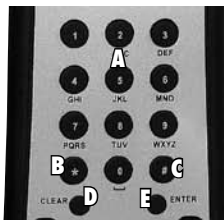


	PC, TV, AUX or CAB/SAT mode	PC Mode
E	Decrement the current volume by 1 unit	Decrement the current volume by 1 unit. If muted, un-mute the volume first.
F	Increment the current volume by 1 unit	Increment the current PC volume by 1 unit. If muted, un-mute the volume first.

## MCE Shortcut Buttons

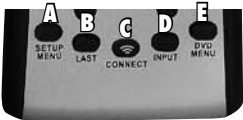
	A	Acts as a shortcut to the "My Pictures" page
	B	Acts as a shortcut to the "TV Home" page
	C	Acts as a shortcut to the "Music" page
	D	Acts as a shortcut to the "My Videos" page

## 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>

## RF Sync, Setup, DVD Menu, Input

	A	Accesses the TV or other IR device's setup menu
	B	Toggles between previously viewed channels
	C	Synchronizes the RF remote with the RF receiver
	D	Toggles between TV inputs
	E	Brings up the Media Center DVD menu

## Backlighting

The RCU Mode Selection buttons are backlit. One of these buttons lights up whenever a button is pressed on the remote to indicate which Control Mode the remote is in; **PC**, **TV**, **AUX**, or **CAB/SAT**. If the backlighting seems dim, the batteries may need to be replaced. There is no backlighting on any other buttons.

## ON/OFF Switch

This switch turns the selected device on or off. The device is selected with the RCU Mode Switches; **PC**, **TV**, **AUX** and **CAB/SAT**.

In the PC mode, this button issues a standard Windows *SLEEP* 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 *SLEEP* command.

In the default configuration this button is setup to give a *STANDBY* command. In this configuration, if the PC is already on, the first button pressed puts the PC into standby mode. If the PC is in standby mode, pressing the *STANDBY* button on the RCU may wake up the PC. For the wake function to work properly, your PC must comply to the ACPI (Advanced Configuration & Power Interface) standard. See your PC Owners Manual for more details.

## 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.



## Setting Up and Synchronizing the Remote and the Transceiver

After inserting the batteries in the remote control unit,

1. Plug the USB RF transceiver into the PC if it hasn't already been done. See the previous section of this document.
2. Press and release the connect button on the USB transceiver. The **CONNECT** light on the transceiver will flash.
3. Press the **CONNECT** button at the bottom of the remote control unit. The **CONNECT** light on the USB transceiver will stop flashing. Your RCU is now connected to your PC and Windows Media Center. The green **STATUS** light on the USB transceiver indicates when RF signals are being received from the RCU.

The RCU can be programmed to operate many brands of remote-controllable components such as TVs, VCRs, CD players, DVD players, cable boxes, satellite receivers and other components via the IR functions of the RCU.

The **AUX** button can be programmed to operate most brands of remote-controllable components: satellite receivers, cable boxes, CDs DVDs, VCRs, DVRs, and other components via the IR functions of the RCU.

To determine whether the universal remote needs to be programmed to operate one of the components connected to your PC, such as TV, do the following:

1. Turn on the component (in this example, a TV).
2. Point the remote at the TV.
3. Press the corresponding component button (in this example, TV).
4. Press **ON•OFF** 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 component you want to operate (TV, DVD player, etc.)
2. Press and hold the component button you want to program (**TV, AUX**, etc.). While holding the component button, press and hold ON/OFF button until the component button on the RCU turns on, then release both buttons.
3. Point the remote at the component.
4. Press and release **PLAY**, then wait 5 seconds or until the component button stops flashing. At this point the RCU is searching for the correct code to program. If, after 5 seconds, the component 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 component turns off or you have searched through all of the codes. The component buttons flash when all codes have been searched, the component button turns off, and the RCU exits the *Automatic Code Search* mode.

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 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.

# Programming Methods

## *Using Direct Entry*

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 component 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 component, you must first "tell" it which component 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.

Volume Punch Through allows the **VOL+**, **VOL-**, and **MUTE** keys, when pressed in the TV, AUX, or CAB/SAT modes, to "punch through" to the TV or other device audio, whichever was accessed last. The Volume Punch Through occurs automatically and allows you to control the volume without exiting the current mode.

# 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.



Remotes should  
not be  
more than  
2" apart



# Learning

## Learning Commands

- 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.
- 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 as once, 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.

## Troubleshooting

If the IR functions on your RCU don't work properly...

- Something might be between the RCU and the remote sensor on the component. Make sure there is a clear path.
- The RCU may not be aimed directly at the component (TV or VCR) that you're trying to operate.
- The RCU might not be in the correct mode for operating that component. Try pressing the corresponding mode switch (**TV**, **AUX**, etc.) then try operating the component with the RCU.
- The batteries in the RCU might be weak, dead, or installed incorrectly. If batteries are weak, the backlighting will be weak on the device mode buttons. In this case, put new batteries in the remote. (**Note:** if you remove the batteries, you may have to reprogram the remote to operate other components.)
- When using the Learning feature, do the learning process in low light areas to prevent natural light and fluorescent light from interfering with the infrared signals.

## Troubleshooting

If the RF or gyro functions on your RCU don't work properly...

- If the RCU does not appear to be working at all, it may not be connected or synchronized with the USB RF transceiver. Repeat the *Setting Up* and *Synchronizing the Remote and the Transceiver* procedure above.
- If, when using the RCU as an in-air cursor control, the cursor is visible on the screen, but shows no movement, the gyro may not be activated. See the *Gyro Operation* section above to activate the gyro and in-air cursor control.
- If the cursor movement is choppy or erratic, there may be radio interference. Move the USB transceiver away from other electronic devices such as monitor speaker or radios.
- The batteries in the RCU might be weak, dead, or installed incorrectly. If batteries are weak, the backlighting will be weak on the device mode buttons. In this case, put new batteries in the remote. (**Note:** if you remove the batteries, you may have to reprogram the remote to operate other components.)

# 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

<b>TV Brand</b>	<b>Code</b>					
<b>LCD TV</b>						
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			
<b>LCD TV/PC Monitor</b>						
Sampo	1473					
<b>LCD TV/Tuner Combo</b>						
Polaroid	1209					
<b>Plasma Display</b>						
Acer	1239					
Pioneer	1244					
Samsung	1202	1231	1245			
Toshiba	1236	1237				
Viewsonic	1246					
<b>Plasma TV</b>						
Gateway	1240					
Magnavox	1474	1475				
Viewsonic	1238					
<b>Plasma TV Monitor</b>						
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

<b>TV Brand</b>	<b>Code</b>									
<b>TV</b>										
Apex	1296	1341	1423	1426						
Audiovox	1039									
Belcor	1007									
Bell & Howell	1004	1047	1068							
Benq	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

<b>TV Brand</b>	<b>Code</b>								
<b>TV</b>									
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						
Grunpy	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

<b>TV Brand</b>	<b>Code</b>									
<b>TV</b>										
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

<b>TV Brand</b>	<b>Code</b>								
<b>TV</b>									
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

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

# Remote Code List

<b>TV Brand</b>	<b>Code</b>								
<b>TV</b>									
Sharp	1007	1009	1014	1027	1030	1086	1101	1102	1103
	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	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	1079	1105	1140	1220	1311	1343	1347	1381
	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	1045	1070	1095	1145	1146	1175	1184	1418
Telecaption	1106								
TMK	1007	1009							
Toshiba	1047	1065	1066	1067	1068	1095	1099	1106	1107
	1139	1140	1249	1253	1297	1305	1307	1309	1313
	1321	1322	1339	1340	1349	1388	1396	1405	1411
	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
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### 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

<b>TV-DVD Brand</b>	<b>TV Code</b>	<b>DVD Code</b>	<b>Tuner Code</b>
<b>TV/DVD Combo</b>			
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	
<b>TV/DVD Tuner Combo</b>			
Panasonic	1344	3154	4124
<b>TV-VCR-TUNER Brand</b>	<b>TV Code</b>	<b>DVD Code</b>	<b>Tuner Code</b>
<b>TV/VCR Combo</b>			
Broksonic	1250	2095	
Daewoo	1290	2096	
GE	1317	2024	
Hitachi	1269	2085	
	1401	2097	
JVC	1254	2077	
	1422	2072	
	1293	2013	
	1393	2075	
	1397	2080	
Magnavox	1400	2083	
	1302	2020	
Panasonic	1399	2082	
	1384	2067	
	1404	2089	

# Remote Code List

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

# Remote Code List

<b>TV-VCR-TUNER Brand</b>	<b>TV Code</b>	<b>DVD Code</b>	<b>Tuner Code</b>	
<b>TV/VCR Tuner Combo</b>				
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	
<b>TV-DVD-VCR TUNER Brand</b>	<b>TV Code</b>	<b>DVD Code</b>	<b>VCR Code</b>	<b>Tuner Code</b>
<b>TV/DVD/VCR Combo</b>				
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	
<b>TV/DVD/VCR Tuner Combo</b>				
Panasonic	1350	3162	2107	4126
	1380	3239	2108	4153
<b>SATELLITE Brand</b>	<b>Code</b>			
<b>Satellite DVR</b>				
DISH Network	5022			
Hughes	5029			
Philips	5021	5029		
RCA	5017	5029		

# Remote Code List

<b>SATELLITE</b>					
<b>Brand</b>	<b>Code</b>				
<b>Satellite DVR</b>					
Samsung	5029				
Sony	5016	5020			
Zenith	5018				
<b>Satellite</b>					
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				
<b>HDTV Tuner</b>					
Panasonic	5029				
RCA	5006				
<b>DTV Decoder</b>					
Sharp	5006				
<b>CABLE</b>					
<b>Brand</b>	<b>Code</b>				
<b>Cable Box</b>					
ABC	5036				
Adelphia	5042				
Cable Vision	5043				

# Remote Code List

<b>CABLE Brand</b>	<b>Code</b>			
<b>Cable Box</b>				
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			
<b>Cable</b>				
Comcast	5039			
<b>Cable-DVR</b>				
Motorola	5041			
<b>VCR Brand</b>	<b>Code</b>			
<b>DVD/VCR Combo</b>				
Broksonic	2034			
Daewoo	2054			
Emerson	2099			
Go Video	2047	2048	2055	2056
Hitachi	2049	2052		

# Remote Code List

<b>VCR Brand</b>	<b>Code</b>				
<b>DVD/VCR Combo</b>					
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			
<b>TV/DVD/VCR Combo</b>					
Panasonic	2092				
RCA	2102				
Samsung	2103				
Sharp	2104				
Sylvania	2091	2093	2101		
Toshiba	2105	2106			
<b>TV/DVD/VCR/Tuner Combo</b>					
Panasonic	2107	2108			
<b>TV/VCR Combo</b>					
Aiwa	2094				
Broksonic	2095				
Daewoo	2096				
GE	2024				
Hitachi	2085	2097			
JVC	2013	2072	2075	2077	2080 2083
Maganvox	2082				
Magnavox	2020				
Panasonic	2067	2089			

# Remote Code List

<b>VCR Brand</b>	<b>Code</b>							
<b>TV/VCR Combo</b>								
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				
<b>TV/VCR/Tuner Combo</b>								
Panasonic	2014	2019	2022	2023	2068			
Philips	2078							
<b>VCR</b>								
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

<b>VCR Brand</b>	<b>Code</b>							
<b>VCR</b>								
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		
<b>DVD-VCR</b>								
<b>Brand</b>	<b>VCR Code</b>	<b>DVD Code</b>						
<b>DVD/VCR Combo</b>								
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

<b>DVD-VCR Brand</b>	<b>VCR Code</b>	<b>DVD Code</b>						
<b>DVD/VCR Combo</b>								
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						
<b>DVD Brand</b>							<b>Code</b>	
<b>DVD</b>								
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

<b>DVD Brand</b>	<b>Code</b>								
<b>DVD</b>									
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

<b>DVD Brand</b>	<b>Code</b>								
<b>DVD</b>									
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					
<b>DVD Recorder</b>									
Irradio	3020								
Panasonic	3112	3114	3118						
Philips	3110	3113	3117	3119					
Pioneer	3115	3116							
RCA	3109								

# Remote Code List

<b>DVD Brand</b>	<b>Code</b>			
<b>DVD Recorder</b>				
Sony	3111			
Yamaha	3120			
<b>DVD/LD</b>				
Pioneer	3031	3058		
<b>DVD/VCR Combo</b>				
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			
<b>DVD-DVR</b>				
RCA	3182			
Toshiba	3183			
<b>HTIB</b>				
BOSE	3159			
Denon	3179			
JBL	3005	3070		
JVC	3103	3104	3177	
Koss	3006	3174		

# Remote Code List

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

## Code

### Amplifier

Yamaha	4012	4015	4017
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### Audio System

Philips	4155		
Pioneer	4154		
RCA & Dimensia	4000		

### Car Receiver/Tuner

Pioneer	4030		
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## 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

<b>AUDIO Brand</b>	<b>Code</b>							
<b>LCD TV</b>								
Viewsonic	4000							
<b>LCD TV/Tuner Combo</b>								
Polaroid	4148							
<b>Receiver</b>								
JBL	4020							
<b>Receiver/Amplifier</b>								
Yamaha	4015	4017						
<b>Receiver/Tuner</b>								
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

<b>AUDIO Brand</b>	<b>Code</b>							
<b>Receiver/Tuner</b>								
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							
<b>Tuner</b>								
Koss	4128	4138						
Panasonic	4122	4123	4124	4125	4126	4150	4151	4153
	4182							
Philips	4152							
Polaroid	4148							
Sony	4133	4135						
Venturer	4134							
<b>Tuner/CD Combo</b>								
BOSE	4127							
<b>TV/DVD/ Tuner Combo</b>								
Panasonic	4124							
<b>TV/DVD/VCR/Tuner Combo</b>								
Panasonic	4126	4153						
<b>TV/VCR/Tuner Combo</b>								
Panasonic	4121	4122	4123	4125	4150	4151	4182	
Philips	4152							

# Remote Code List

<b>HTIB Brand</b>	<b>Audio Code</b>	<b>DVD Code</b>
<b>HTIB</b>		
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
<b>HDTV TUNER</b>		
<b>Brand</b>	<b>Code</b>	
<b>HDTV Tuner</b>		
Panasonic	7000	
RCA	7001	7002

# Remote Code List

<b>DVR Brand</b>	<b>Code</b>
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<b>Digital Network Recorder</b>	
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Sony	3244
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<b>DVR</b>	
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Panasonic	3242
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Philips	3240
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RCA	3243
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Replay TV	3241
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Tivo	3243
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<b>PVR</b>	
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Replay TV	3246
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Tivo	3245
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# Notes



## Notes

US Patent Numbers: 5,440,326; 5,898,421; 5,825,350 and other pending patents GYR3101US  
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