GYR3101US

Gyration

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 _____

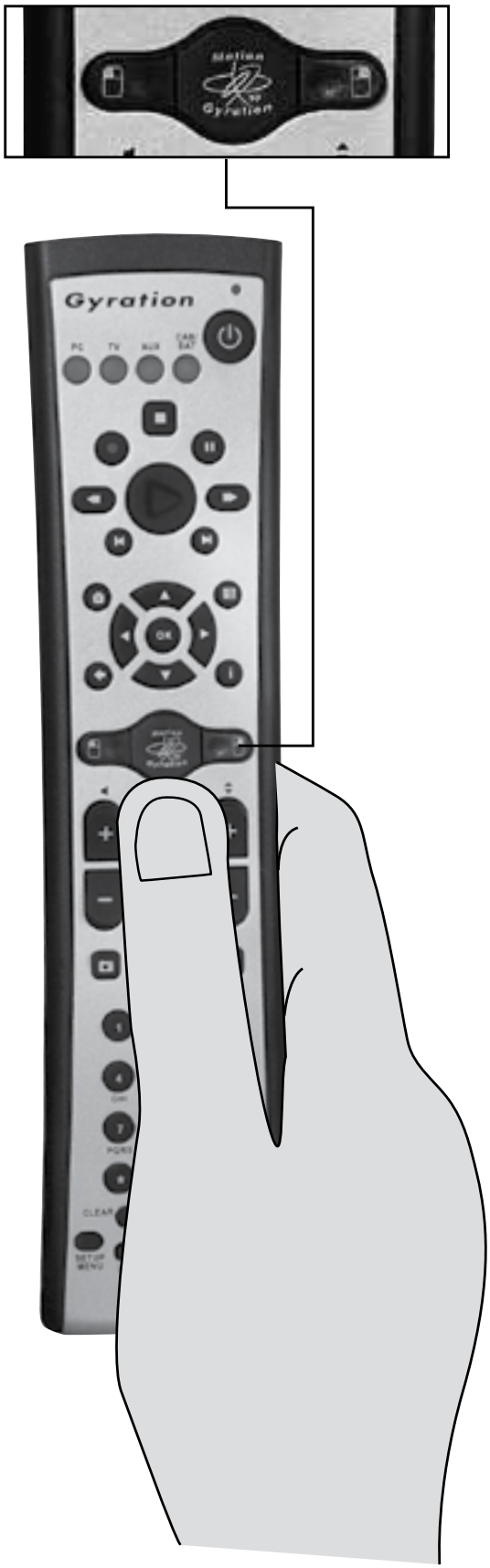
Serial Number _____ Purchase Date _____

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:

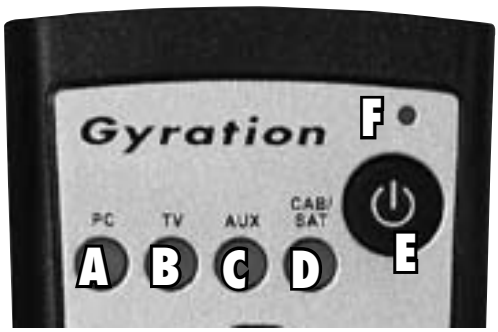
- Use your thumb to press the gyro and mouse buttons.
- Click the center button to activate the gyro motion-sensing control. Single click and hold to move the cursor and release it to "park" the cursor where you want it. Double click the center button and release it for continuous cursor movement similar 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

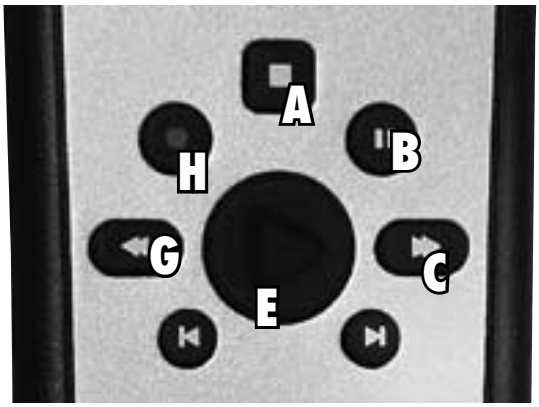
Button Cluster Locations		Button Cluster	Function
	A	Remote Control Unit mode selection and power	Selects device mode **(PC, TV, CAB/SAT, AUX)**. Powers on/off selected device.
	B	Transport control	AV control for selected transport or Windows Media Player, Windows Media Center, DVR, etc.
	C	Menu navigation	Menu navigation: up, down, left, right, OK. Includes **LIVE TV, GUIDE, BACK and MORE.**
	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 **(The Green Button)** and volume mute.
	F	Media Center shortcuts	Shortcuts buttons include: **MY TV, MY PICTURES, MY MUSIC, MY VIDEOS.**
	G	Alphanumeric keypad	**0-9** keys with alpha characters, plus*, ␣, **CLEAR** and **ENTER**
	H	Setup and Device Control	**CONNECT, SETUP, LAST, DVD, MENU, INPUT**

RCU Mode Selection



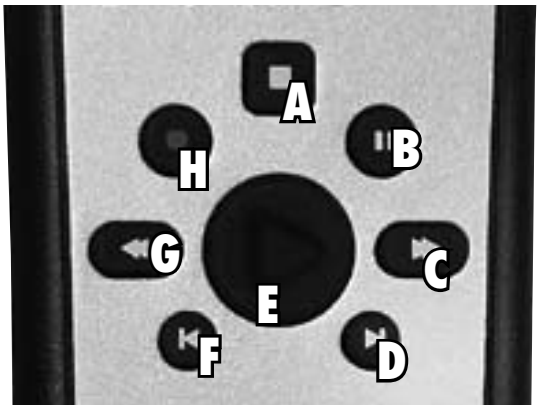
A	Puts RCU into *PC control mode* for communicating with Media Center PC via RF protocol.	
B	Puts RCU into *TV control mode* for communicating with TV via IR protocol.	
C	Puts RCU into *AUX* control mode for communicating with additional learned device via IR protocol.	
D	Puts RCU into *CAB/SAT* control mode 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



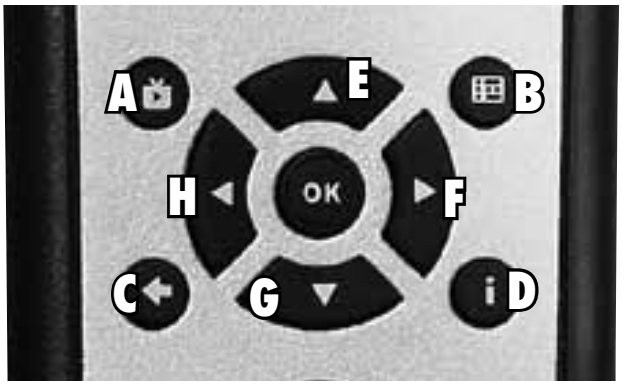
	PC, TV, AUX or CAB/SAT mode	PC Mode
A	Puts selected device into *Stop* mode, if supported	Stops media playback and positions pointer to start of media
B	Puts selected device into *Pause* mode, if supported	First button press pauses the media at present position. Subsequent button presses toggles between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



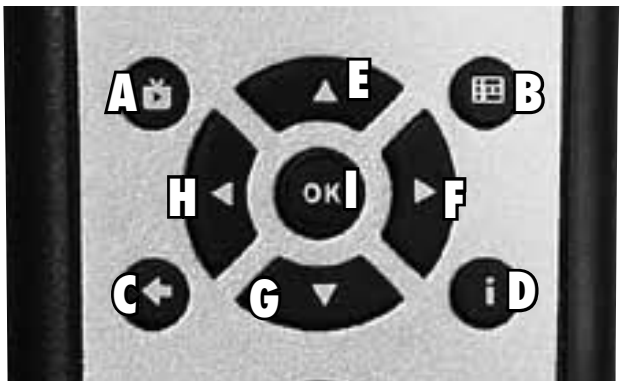
	PC, TV, AUX or CAB/SAT mode	PC Mode
F	Replay command, if supported by selected device	Move the position pointer back an increment: CD and Playlist: skips back to previous song. DVD: skips back to previous chapter. Slide show: skips back to previous picture. DVR skips back 7 seconds
G	Puts selected device into *Rewind* 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 *Record* 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



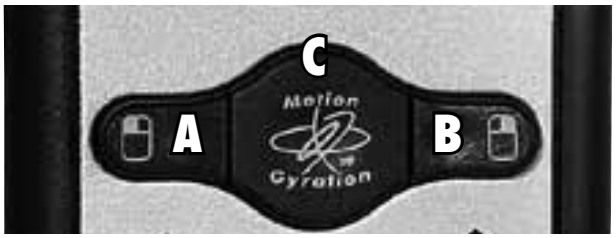
	TV, AUX or CAB/SAT mode	PC Mode
A	No action, or as defined by selected device	Brings live TV to the front to the last channel user was watching.
B	No action, or as defined by selected device	Invokes the on-screen TV program guide via Media Center
C	No action, or as defined by selected device	Goes back 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

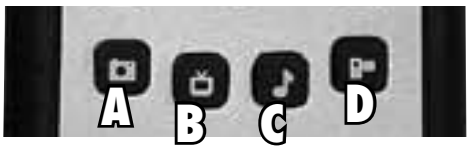
Channel/Volume Control & Media Center Green Button

	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

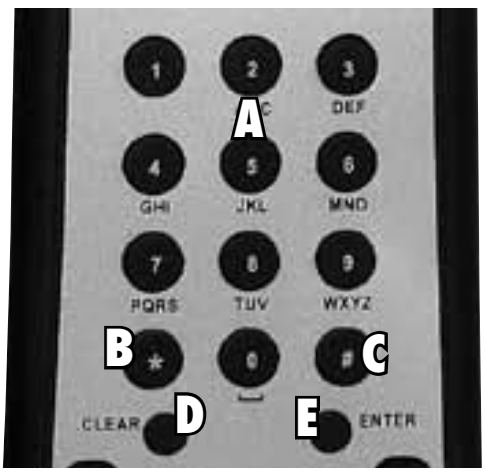
	PC, TV, AUX or CAB/SAT mode	PC Mode
E	Decrement the current volume by 1 unit	Decrement the current volume by 1 unit. If muted, un-mute the volume first.
F	Increment the current volume by 1 unit	Increment the current PC volume by 1 unit. If muted, un-mute the volume first.

MCE Shortcut Buttons



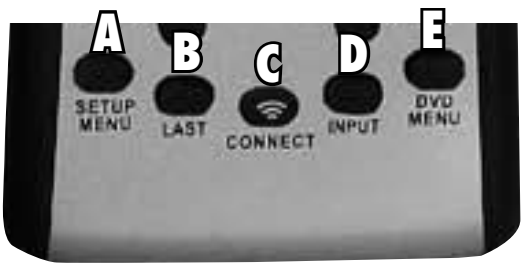
A	Acts as a shortcut to the “My Pictures” page
B	Acts as a shortcut to the “TV Home” page
C	Acts as a shortcut to the “Music” page
D	Acts as a shortcut to the “My Videos” page

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	*Clear*
E	Enter, if supported by the selected device	*Enter*

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

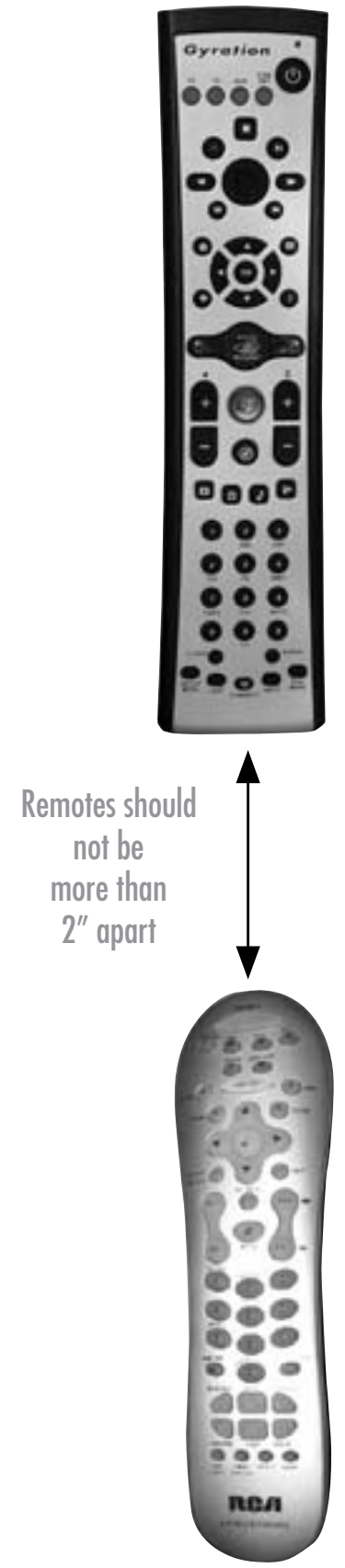
1. All learned functions for a mode can be erased if you program a different device to that mode.
2. Perform the learning process in low-light areas because too much ambient light might cause interference with the infrared (IR) signals of the remotes.
3. Use fresh batteries in both the Media Center and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



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					
Brillian	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						
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

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							
Gibralter	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

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						
Kloss 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				
NetTV	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								
TV									
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/	1003	1007	1009	1014	1039	1047	1068	1086	1146
Realistic	1147								
RCA	1000	1003	1006	1007	1008	1009	1010	1021	1087
	1088	1089	1090	1091	1092	1093	1114	1153	1155
	1158	1159	1161	1168	1176	1180	1183	1185	1187
	1188	1190	1191	1197	1289	1298	1303	1310	1317
	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	1147	1169	1192	1252	1270	1308	1326	1330
	1331	1353	1362	1366	1387				
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	1007	1009	1015	1016	1021	1045	1046	1047
	1048	1060	1065	1066	1067	1068	1099	1100	1154
	1155	1160	1187	1188	1191	1418			

Remote Code List

TV Brand	Code								
TV									
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								
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 Code	DVD Code	Tuner Code
TV/VCR Combo			
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	
	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	
	1405	2090	
Zenith	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	TV Code	DVD Code	VCR Code	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	Code
Satellite DVR	
DISH Network	5022
Hughes	5029
Philips	5021
RCA	5017

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	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
Maganvox	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	Code					
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

Notes

Notes

Notes

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