

# IRMT-4

Infrared remote control



## User's manual



Giving full control to wet fingers!





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## Congratulations!

You own the industry's best remote control. Your control is waterproof and designed to provide hours and hours of troublefree usage.

For best results, please remove the control from the water when the spa is not in use. Prolonged exposure to the hot water in your spa may create humidity build-up inside your control. This will not affect the operation of the remote but may alter its appearance.

Please read the instructions provided in this manual carefully to ensure optimal use of your IRMT-4 Aeware remote control.

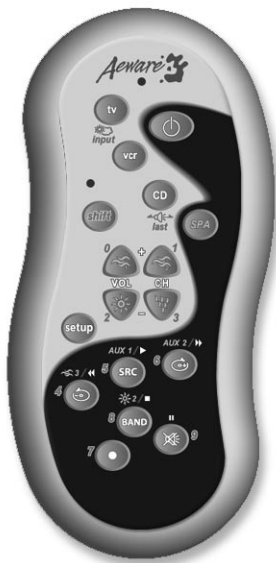
## Main features

The IRMT-4 Aeware can control 4 of the following devices:

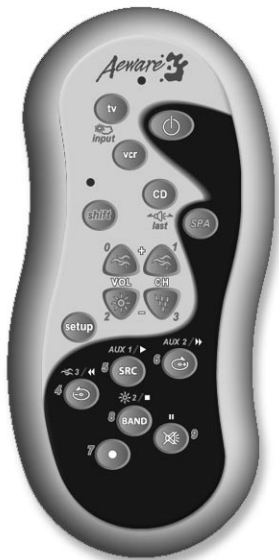
- Spa
- Audio equipment (in.tune, CD, Tuner, Amplifier and Audio Cassette)
- Video equipment (TV, VCR and DVD)
- Home automation

The IRMT-4 Aeware has 17 keys (up to 29 functions with double-function keys) and also features the following:

- Preprogrammed universal codes
- Quick Search mode
- IR Learning mode
- Reassignable device keys
- Ergonomic design
- Floatable
- Totally sealed
- 3 "AAA" batteries in watertight compartment (codes values are memorized even after replacing the batteries)

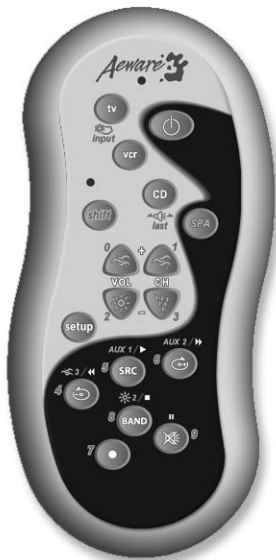


Key/Icon	Description
	When pressing a key, the red LED blinks to show that the remote control is working properly and sending signals.
	Use <b>setup</b> for all programming sequences.
	Press <b>Power</b> once to turn on or off the selected home entertainment device.
	Press <b>tv</b> , <b>vcr</b> , <b>CD</b> or <b>SPA</b> once to select a home entertainment device to control.
	<b>Spa mode:</b> Use <b>CH +</b> or <b>CH -</b> to control <b>Pump 2</b> and <b>Blower</b> .
	<b>CD mode (radio):</b> Press <b>CH +</b> or <b>-</b> to go to the next or previous preset station. Press and hold <b>CH +</b> or <b>-</b> to make a seek up or down to the next station. Scan mode stops as soon as a strong station is found.
	<b>CD mode (weather band):</b> Use <b>CH +</b> or <b>-</b> to go to the next or previous memorized station.
	<b>CD and CD changer mode:</b> Press <b>CH +</b> or <b>CH -</b> to change music track up or down. Press and hold <b>CH +</b> or <b>CH -</b> to fast forward or to fast backward a selected song track.
	<b>Other modes (TV/VCR):</b> Use <b>CH +</b> or <b>CH -</b> to change channels up or down.

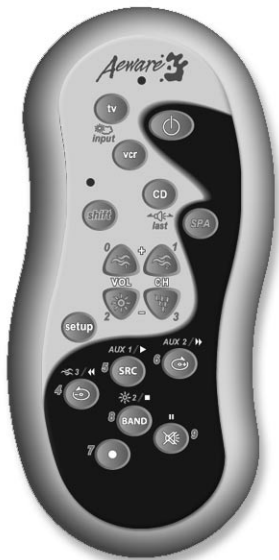







Key/Icon	Description
	Press VOL + or - to increase or decrease volume
	<b>Spa mode:</b> Use to control <b>Pump 1</b> and <b>Light</b> .
	<b>VCR mode:</b> Pressing *Record key will allow you to <b>Record</b> .
	<b>CD mode:</b> Pressing SRC will allow you to select a source between the following (in order): Tuner, CD, Aux.
	<b>Spa mode:</b> Pressing Aux 1 key will allow you to select Aux 1.
	<b>VCR mode:</b> Pressing ► will allow you to select Play.
	<b>CD mode (MP3):</b> Press  to select folder down.
	<b>Spa mode:</b> Press  3 to select Pump 3.
	<b>VCR mode:</b> Pressing ◀ will allow you to select rewind.

**\* Record Safety:** To record a program, press **Record** key twice.  
This is to prevent accidental recordings (this applies to VCR mode only).

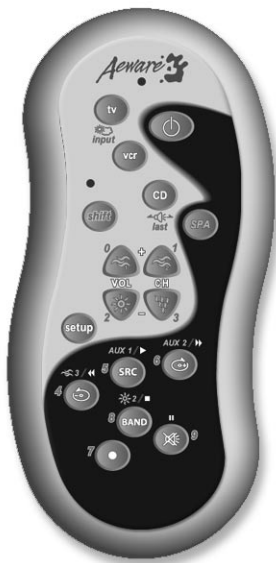












Key/Icon	Description
	<p><b>CD mode (MP3):</b> Press  to select folder up.</p> <p><b>Spa mode:</b> Press <b>AUX 2</b> to select Aux 2.</p> <p><b>VCR mode:</b> Pressing  will allow you to select forward.</p>
	<p><b>CD mode (radio):</b> Press <b>Band</b> to select between FM1, FM2, FM3, AM1, AM2 and WB (weather band).</p> <p><b>Spa mode:</b> Press  2 to select Light 2.</p> <p><b>VCR mode:</b> Press  to select stop.</p>
	<p><b>CD mode:</b> Press  to mute the audio output. Press again to return to previous volume level.</p> <p><b>VCR mode:</b> Press to  select pause.</p>
	While holding <b>shift</b> , press one of the following keys to select secondary functions (LED lights up above key).
+ 0,1,2,3,4,5,6,7,8,9	In CD mode (radio) use the numbers (1-6) to recall preset stations. Use the numbers (0-9) for all programming codes.



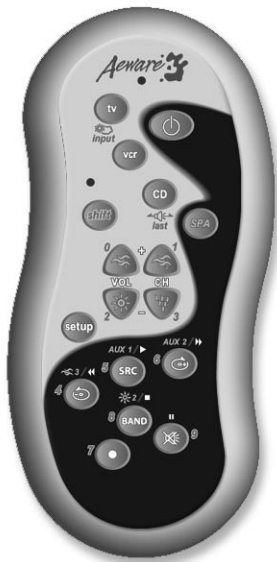
Key/Icon	Description
 + 	<p><b>CD mode:</b> Successive presses on <b>CD</b> will allow you to select from one of the following adjustments:</p> <p>FAD-FRONT: Front speaker only. FAD-REAR: Rear speaker only. FAD-ALL: Front and rear speakers.</p> <p><b>Other modes (TV/ VCR):</b> Press <b>TV</b> once to recall last channel.</p>
 + 	<p><b>Weather band mode:</b> Press <b>CH+</b> key to change to the next preset weather channel CH 1 to CH 7).</p> <p><b>CD changer/CD mode:</b> Press <b>CH+</b> key to Play/Pause CD.</p> <p><b>Radio mode:</b> Press <b>CH+</b> key to recall preset station <b>1</b>. Press and hold down this key to transfer the current radio station to this key.</p> <p><b>Other modes (TV/ VCR):</b> Press  once to switch the input of chosen device.</p>

**Time-Out:** 10 seconds after pressing a key, the remote will exit programming mode or current state you are in.



Key/Icon	Description
 + 	<b>CD changer/CD mode:</b> Press CH - key to preview each song of the current disc for about 10 seconds (intro scan mode).  <b>Radio mode:</b> Press CH - key to recall preset station 2. Press and hold down this key to transfer the current radio station to this key.
 + 	<b>Weather band mode:</b> Press CH - key to change to the previous preset weather channel CH 1 to CH 7).  <b>CD changer/CD mode:</b> Press CH - key to repeat a song track in CD mode. Press it to playback an entire disk in CD changer mode.  <b>Radio mode:</b> Press CH+ key to recall preset station 3. Press and hold down this key to transfer the current radio station to this key.
 + 	<b>CD changer/CD mode:</b> Press this key to play all song tracks of the current disc in random order.  <b>Radio mode:</b> Press CH - key to recall preset station 4. Press and hold down this key to transfer the current radio station to this key.
 + 	<b>Radio mode:</b> Press CH - key to recall preset station 5. Press and hold down this key to transfer the current radio station to this key.
 + 	<b>Radio mode:</b> Press CH - key to recall preset station 6. Press and hold down this key to transfer the current radio station to this key.





## Key/Icon

## Description

**CD mode:**

Press to access Weather band mode.

Press again to turn off weather band radio and return to previous mode.

**Other modes (TV/ VCR):**

Press *input* once to switch the input of chosen device.

**CD mode:**

Successive presses on will allow you to select from one of the following adjustments:

FAD-FRONT: Front speaker only.

FAD-REAR: Rear speaker only.

FAD-ALL: Front and rear speakers.

**Other modes (TV/ VCR):**

Press *last* once to recall last channel.

**Time-Out:** 10 seconds after pressing a key, the remote will exit programming mode or current state you are in.



Your remote control is powered by three AAA batteries

- 1• Unscrew and remove bottom cap.

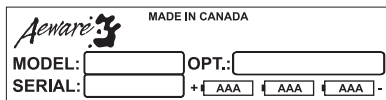
Notes:

- You can use a coin to unscrew cap.
- When replacing batteries, it is recommended to add a lubricant (e.g. Vaseline) on cap gaskets to ensure perfect watertightness.



- 2• Insert new batteries, making sure to match plus (+) ends with plus markings on the battery case. Refer to the label under your remote or see illustration below.
- 3• Replace cap ensuring that waterproof gaskets are correctly positioned and cap is well screwed.

Label under the remote





The IRMT-4 Aeware can control up to four different devices. Carry out the following instructions for each device you want to control.

**Default setup code numbers:**

TV	0047	RCA
VCR	0060	RCA

Write down your setup code numbers in the chart below, for future reference.

**Setup code numbers:**

Mode	Code
TV	Code for TV
VCR	Code for VCR, Audio Cassette, DVD, LDP, DAT
CD	Code for in.tune ( <b>0101</b> ), Amplifier, Tuner, Misc. Audio, CD, Home Automation.
SPA	Code for the SPA ( <b>0420</b> )

TV	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
VCR	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
CD	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="1"/>
SPA	<input type="text" value="0"/>	<input type="text" value="4"/>	<input type="text" value="2"/>	<input type="text" value="0"/>

**Note:**  
The code for your Sony CDX-C6750 or CDX-C5000 Radio CD is **0179**.

- 1• Turn on a device (e.g., VCR) and, if applicable, insert media (e.g., video cassette).

**Note:**  
Please read steps 2-4 completely before proceeding. We recommend highlighting the codes and device you wish to program before moving on to step 2.

- 2• On the IRMT-4 Aeware, press mode key once (i.e., tv, vcr, CD or SPA). Press and hold **setup** until LED blinks twice, then release key.
- 3• Use the Code Table (at the end of this manual) to locate brand name and type of device. Then, enter the four-digit code for your device. If performed correctly,

the LED will blink twice. Remember to press and hold **shift** key first to access numbers (0-9).

**Note:**  
If LED did not blink twice, then repeat steps 2-3 and try entering the same code again.

- 4• Aim IRMT-4 Aeware at device and press **Power** once. It should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see Searching For Your Code).
- 5• Repeat steps 1-4 for each device you want the IRMT-4 Aeware to control.



If your device does not respond to the IRMT-4 Aeware after trying all codes listed for your brand, or if your brand is not listed at all, try searching for your code.

Simply substitute the appropriate mode key (i.e., TV, VCR, CD or SPA) for the device you are checking and repeat steps 1-5.



- 1 • On the IRMT-4 Aeware, press mode key once (tv, vcr, CD or SPA).



- 2 • Press and hold **setup** until LED blinks twice, then release key.



- 3 • Enter **9-9-1**. LED will blink twice. Remember to press and hold **Shift** key first to access numbers (0-9).



- 4 • Aim remote control at TV and slowly alternate between pressing **Power** and **TV**. Stop when the tv turns on.



5 • Press **setup** once to lock in the code.

**Note:**  
LED blinks three times when the sequence has been completed.

Instead of pressing **Power**, you can use **0,1, 2, 3, CH +, VOL +, Play and Stop**.

In Search mode, IRMT-4 Aeware will send IR codes from its library to the selected device, starting with the most popular code first or with the current programmed code.



If you have set up the IRMT-4 Aeware using the “Searching For Your Code” procedure, you may need to find out which four-digit code is operating your equipment.

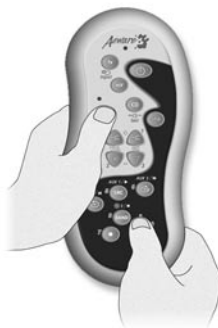
Simply substitute the appropriate mode key (i.e., tv, vcr, CD or SPA) for the device you are checking and repeat steps 1-5.



- 1• On the IRMT-4 Aeware, press mode key once (tv, vcr, CD or SPA).



- 2• Press and hold **setup** until LED blinks twice, then release key.



- 3• Enter **9-9-0**. LED will blink twice. Remember to press and hold **shift** key first to access numbers (0-9).



- 4• To view the code for the first digit, press **1** once. Then count the LED blinks (e.g., 3 blinks = 3) and write down the number.



- 5 • Repeat step 4 three more times for the remaining digits. Use 2 for the second digit, 3 for the third digit, and 4 for the fourth digit.

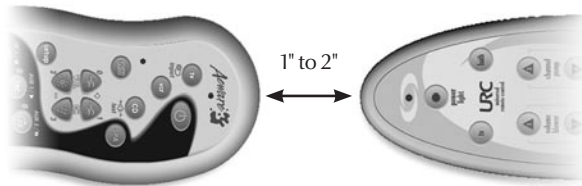
**Note:**

If a code digit is "0", LED will not blink.

Remember to press and hold **shift** key first to access numbers (0-9).



The IRMT-4 has the ability to learn new functions from your original remote controls.



**Note:**

To optimize success, the learning process should be conducted in an area where there is a low level of IR emission. High levels of natural light or energy efficient fluorescent lights could interfere with a learning event. The source and target (IRMT-4 Aeware) remotes should be no more than 1 to 2 inches apart during a learning event and the IR LEDs of the two units should be aligned with each other.

It is important to use new batteries on the source remote. (Refer to following page to read limitations about the Learning mode.)



**The learning operation is initiated as follows:**

- 1• Press and hold **setup** until LED blinks twice to initiate Learning mode, then release
- 2• Enter **9-7-5**. LED will blink twice. Remember to press and hold **shift** key first to access numbers (**0-9**).





- 3• Press mode key (tv, vcr, CD or SPA).
- 4• Hold teaching remote close to LED.
- 5• On the IRMT-4, press key to be learned. LED flashes rapidly.
- 6• Press and hold key to be taught until LED on IRMT-4 blinks twice.
- 7• LED turns off.
- 8• Repeat steps 3-7 as often as desired (up to limit of memory).
- 9• Exit Learning mode by pressing and holding **setup** until LED blinks twice, or by time-out (if remote remains untouched for more than 10 seconds).

At step 6, one long blink indicates learning failure, which could be:

- Bad capture (try again)
- Memory full (delete some other function)\*
- Unlearnable code

At step 2, one long blink indicates low battery or memory full (i.e. the unit will not go into Learning mode if either of these conditions exist).

\* If your memory is full, delete one function (**setup, 9, 7, 6;** see page 16) or delete all (**setup, 9, 8, 1 or 9, 8, 0;** see page 18).



If your memory is full, you will need to delete one or more functions on your IRMT-4 Aware. Here is how to delete one function:



### Deleting a learned function:

- 1 • Press and hold **setup** until LED blinks twice, then release key.
- 2 • Enter **9-7-6**. LED will blink twice. Remember to press and hold **shift** key first to access numbers (**0-9**).
- 3 • Press mode key (**tv**, **vcr**, **CD** or **SPA**).
- 4 • Now press twice on key you want to delete. Learned function reverts to original function.

The LED blinks two times after successful completion of deleting sequence. There will be 2 blinks and one long blink if there is a problem with the remote. Remote goes back to normal operation after 10 seconds.



### Limitations:

- There are certain device codes which are not learnable (or others that once they are learned can create a bad functionality).
- The unit can learn only one code per key.
- All keys with the exception of **shift**, **setup** and the mode keys (**tv**, **vcr**, **CD**, **SPA**) can be learned on.
- During a learning event, the source remote and target should be no more than 1 to 2 inches apart.
- The learning process should be conducted in an area where there is a low level of IR emission. High levels of natural light or energy efficient fluorescent lights could interfere with a learning event.
- In general, it is not recommended to learn a function to **Record** key because it requires a double key press to send the record function in normal operation.
- Typically, there are up to 24 keys that can be learned.



If your memory is full, you will need to delete one or more functions on your IRMT-4 Aeware. Here is how to delete all functions and codes:



### Deleting all learned functions:

- 1• Press and hold **setup** until LED blinks twice, then release key.
- 2• Enter **9-8-0**. LED will blink twice. Remember to press and hold **shift** key first to access numbers (**0-9**).

All learned functions are deleted and remote reverts to original functions.

The LED blinks twice, pause then blinks 2 more times after successful completion of the programming sequence.



If your memory is full, you will need to delete one or more functions on your IRMT-4 Aeware. Here is how to delete all functions and codes:



### Deleting all learned functions and codes:

- 1• Press and hold **setup** until LED blinks twice, then release key.
- 2• Enter **9-8-1**. LED will blink twice. Remember to press and hold **shift** key first to access numbers (**0-9**).

The remote resets all learned functions and codes.

The LED blinks twice, pause then blinks 2 more times after successful completion of the programming sequence.

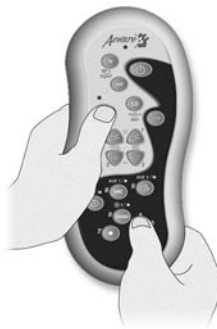


The IRMT-4 Aeware can be set up to control a second TV or VCR, or any combination of three home entertainment devices.

For example, to have the IRMT-4 Aeware control two TVs, you will need to reassign the unused VCR key to operate the second TV as follows:



- 1 • On the IRMT-4 Aeware, press and hold **setup** until LED blinks twice, then release key.



- 2 • Enter **9-9-2**. LED blink twice. Remember to press and hold **shift** key first to access numbers (**0-9**).



- 3 • Press **TV** once, then press **VCR** once.
- 4 • The **VCR** key is now ready to be programmed for your second TV. See Programming Device Control.

To reassign other device keys, repeat steps 1-4 by substituting the key sequence from the chart opposite for the most popular devices.



To reassign key:

Sequence	Perform
TV as 2nd VCR key:	setup-9-9-2-vcr-tv
TV as 2nd CD key:	setup-9-9-2-cd-tv
TV back to TV:	setup-9-9-2-tv-tv
VCR as 2nd TV key:	setup-9-9-2-tv-vcr
VCR as 2nd CD key:	setup-9-9-2-cd-vcr
VCR back to VCR:	setup-9-9-2-vcr-vcr
*CD as 2nd TV key:	setup-9-9-2-tv-cd
*CD as 2nd VCR key:	setup-9-9-2-vcr-cd
*CD back to CD:	setup-9-9-2-cd-cd

\* When the CD key is reassigned to a different device, any controlling function of your in.tune will be disabled.



The IRMT-4 Aeware is set to control volume of device through your TV while in TV or VCR mode.

**Note:** In an Audio mode, you have separate control of your audio device's volume. If your TV is not remote controllable, or if you want volume to be controlled by a different device, you can change the Volume Lock setting to control a volume through a non-associated mode (e.g., through the CD in TV mode).



### Lock volume to one mode:

- 1• On the IRMT-4, press and hold **setup** until LED blinks twice, then release key.
- 2• Enter **9-9-3** and then press any mode key once (except tv). LED will blink twice (ie: .CD).
- 3• Now, whenever you press **VOL+** or **VOL-** on the IRMT-4, volume will always be controlled by the same device that you have chosen (ie:.CD).

### Note:

If you lock volume to any device, the Pump 1 and Light function in spa mode will be disabled. It's possible to re-enabled this function by unlocking Volume. (ie: in spa mode as follows:  
**SPA+SETUP+ 9-9-3 + VOL -.**





### Reset Volume control back to its original device setting:

- 1• On the IRMT-4 Aeware, press and hold **setup** until LED blinks twice, then release key.
- 2• Enter **9-9-3** and then press **VOL +**. LED will blink four times.
- 3• Now, whenever you press **VOL +** or **VOL -** on the IRMT-4, volume will control each specific device that has been chosen (ie:TV).



If you have a problem with your remote control, refer to the list below:

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**Problem:** LED does not blink when you press a key.

**Solution:** Replace the batteries with three new AAA alkaline batteries (refer to page 4 of this manual).

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**Problem:** LED blinks when you press a key, but home entertainment device or SPA does not respond.

**Solution:** Make sure the IRMT-4 Aeware is aimed at your home entertainment device and is not further than 15 feet away.

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**Problem:** IRMT-4 Aeware does not control home entertainment devices or commands are not working properly.

**Solution:** Try all listed codes for the device brands being set up. Make sure they can be operated with an infrared remote control.

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**Problem:** No volume on a second TV.

**Solution:** Follow instructions in Changing Volume Lock.

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## Setup codes for TVs:

AOC	0030, 0019	Cineral	0451, 0092
Admiral	0093, 0463	Citizen	0060, 0030
Aiko	0092		0056, 0039
Akai	0030		0092
Alaron	0179	Concerto	0056
Ambassador	0177	Contec	0180
America Action	0180	Craig	0180
Ampro	0751	Crosley	0054
Anam	0180	Crown	0180, 0039
Audiovox	0451, 0180	Curtis Mathes	0047, 0054
	0092, 0623		0154, 0051
Baysonic	0180		0451, 0093
Belcor	0019		0060, 0030
Bell & Howell	0154, 0016		0145, 0056
Bradford	0180		0016, 0039
Brockwood	0019		0166, 0466
Broksonic	0236, 0463		1147, 1347
CXC	0180	Daewoo	0451, 0019
Candle	0030, 0056		0039, 0092
Carnivale	0030		0623, 0624
Carver	0054	Daytron	0019
Celebrity	0000	Denon	0145

## Setup codes for TVs:

Dumont	0017, 0019	GoldStar	0030, 0178
Dwin	0720, 0774		0019, 0056
Electroband	0000	Gradiente	0053, 0056
Emerson	0154, 0236	Grunpy	0180, 0179
	0463, 0180	Hallmark	0178
	0282, 0178	Harley Davidson	0179
	0019, 0179	Harman/Kardon	0054
	0039, 0177	Harvard	0180
	0623, 0624	Hitachi	0145, 0056
Envision	0030		0151
Fisher	0154	Infinity	0054
Fujitsu	0179	Inteq	0017
Funai	0180, 0179	JBL	0054
	0171	JCB	0000
Futuretech	0180	JVC	0053
GE	0047, 0051	KEC	0180
	0451, 0093	KTV	0180, 0030
	0282, 0178		0039
	0021, 0135	Kenwood	0030, 0019
	1147, 1347	LG	0056
Gibraltar	0017, 0030		
	0019		



## Setup codes for TVs:

LXI	0047, 0054	Minutz	0021
	0154, 0156	Mitsubishi	0093, 0150
	0178		0178, 0019
Logik	0016	Motorola	0093
Luxman	0056	Multitech	0180
MGA	0150, 0030	NAD	0156, 0178
	0178, 0019		0166
MTC	0060, 0030	NEC	0030, 0019
	0019, 0056		0056
Magnavox	0054, 0030	NTC	0092
	0179	Nikko	0030, 0178
Majestic	0016		0092
Marantz	0054, 0030	Onwa	0180
Matsushita	0250	Optimus	0154, 0250
Megatron	0178, 0145		0166
	0154, 0250	Optonica	0093, 0165
Memorex	0463, 0150	Orion	0236, 0463
	0178, 0056		0179
	0016	Panasonic	0051, 0250
Midland	0047, 0017	Penney	0047, 0156
	0051, 0039		0051, 0060
	0135		0030, 0178

## Setup codes for TVs:

	0021, 0019		1247, 1347
	0056, 0039	Radio Shack	0047, 0154
	0135, 1347		0165, 0180
Philco	0054, 0463		0030, 0178
	0030, 0145		0019, 0056
	0019		0039
Philips	0054	Realistic	0154, 0165
Pilot	0030, 0019		0180, 0030
	0039		0178, 0019
Pioneer	0166		0056, 0039
Portland	0019, 0039	Runco	0017, 0030
	0092		0603
Prism	0051	SSS	0180, 0019
Proscan	0047	Sampo	0030, 0039
Proton	0178, 0466	Samsung	0060, 0030
	0017, 0019		0178, 0019
Quasar	0051, 0250		0056
	0165	Samsux	0039
RCA	0047, 0051	Sansei	0451
	0093, 0019	Sansui	0463
	0090, 0135	Sanyo	0154
	1047, 1147	Scimitsu	0019



## Setup codes for TVs:

Scotch	0178	TMK	0178, 0056
Scott	0236, 0180		0177
	0178, 0019	Tandy	0093
	0179	Technics	0051, 0250
Sears	0047, 0054	Technol Ace	0179
	0154, 0156	Techwood	0051, 0056
	0178, 0179	Teknika	0054, 0180
	0056, 0171		0150, 0060
Semivox	0180		0019, 0179
Semp	0156		0056, 0016
Sharp	0093, 0165		0039, 0092
	0039	Telefunken	0056
Shogun	0019	Toshiba	0154, 0156
Signature	0016		0060
Sony	0000	Totevision	0039
Soundesign	180, 0178	Vector Research	0030
	0179	Victor	0053
Squareview	0171	Vidikron	0054
Starlite	0180	Vidtech	0178, 0019
Supreme	0000	Wards	0054, 0165
Sylvania	0054, 0030		0030, 0178
Symphonic	0171		0021, 0019

## Setup codes for TVs:

	0179, 0056
	0016
White Westinghouse	0463, 0623
	0624
Yamaha	0030, 0019
Zenith	0017, 0463
	0016, 0092

## Setup codes for VCRs:

Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0037, 0000
Akai	0041
America Action	0278
American High	0035
Asha	0240
Audiovox	0037
Beaumarck	0240
Bell & Howell	0104
Brocksonic	0209
Broksonic	0184, 0121
	0209, 0002
CCE	0072, 0278
Calix	0037
Canon	0035
Carver	0081
Cineral	0278
Citizen	0037, 0278
Colt	0072



## Setup codes for VCRs:

Craig	0037, 0047 0240, 0072 0271	Garrard	0000
		Go Video	0526
		GoldStar	0037, 0038
Curtis Mathes	0060, 0035 0041, 0162	Gradiente	0000
		HI-Q	0047
Cybermex	0240	Harley Davidson	0000
Daewoo	0045, 0278	Harman/Kardon	0081, 0038
Denon	0042	Harwood	0072
Dynatech	0000	Headquarter	0046
Electrohome	0037	Hitachi	0000, 0042
Electrophonic	0037		0041
Emerex	0032	Hughes Net. Sys.	0042
		JVC	0067, 0041
Emerson	0037, 0184 0000, 0121 0043, 0209 0002, 0278	Jensen	0041
		KEC	0037, 0278
		KLH	0072
		Kenwood	0067, 0041
Fisher	0047, 0104		0038
Fuji	0035, 0033	Kodak	0035, 0037
Funai	0000	LXI	0037
GE	0060, 0035 0048, 0240	Lloyd's	0000
		Logik	0072

## Setup codes for VCRs:

MEI	0035	Motorola	0035, 0048
MGA	0240, 0043	Multitech	0000, 0072
MGN Technology	0240	NEC	0104, 0067
MTC	0240, 0000		0041, 0038
Magnasonic	0278	Nikko	0037
Magnavox	0035, 0039 0081, 0000 0149	Noblex	0240
		Olympus	0035
		Optimus	0037, 0048
Magnin	0240		0104, 0162
Marantz	0035, 0081		0454, 1062
Marta	0037		1162, 1262
Matsushita	0035, 0162 0454	Orion	0184, 0209 0002
			0002
Memorex	0035, 0037 0048, 0039 0047, 0240 0000, 0104 0209, 0046 1162, 1262	Panasonic	0035, 0162 0225, 0454 1162
			1162
		Penney	0035, 0037 0240, 0042 0038
Minolta	0042	Pentax	0042
Mitsubishi	0048, 0067 0043	Philco	0035, 0209
		Philips	0035, 0081



Setup codes for VCRs:

Pilot	0037	Samsung	0240, 0045
Pioneer	0067	Sanky	0048, 0039
Profitronic	0240	Sansui	0000, 0067
Proscan	0060		0209, 0041
Protec	0072		0271
Pulsar	0039	Sanyo	0047, 0240
Quarter	0046		0104, 0046
Quartz	0046	Scott	0184, 0045
Quasar	0035, 0162		0121, 0043
	0454, 1162	Sears	0035, 0037
RCA	0060, 0035		0047, 0000
	0048, 0240		0042, 0104
	0042, 0149		0046
Radio Shack	0000	Semp	0045
Radix	0037	Sharp	0048
Randex	0037	Shintom	0072
Realistic	0035, 0037	Shogun	0240
	0048, 0047	Singer	0072
	0000, 0104	Sony	0035, 0032
	0046		0000, 0033
Runco	0039	Sylvania	0035, 0081
STS	0042		0000, 0043

Setup codes for VCRs:

Symphonic	0000	XR-1000	0035, 0000
TMK	0240		0072
Tatung	0041	Yamaha	0038
Teac	0000, 0041	Zenith	0039, 0000
Technics	0035, 0162		0209, 0033
Teknika	0035, 0037		
	0000		
Thomas	0000		
Toshiba	0045, 0043		
Totevision	0037, 0240		
Unitech	0240		
Vector	0045		
Vector Research	0038		
Video Concepts	0045		
Videosonic	0240		
Wards	0060, 0035		
	0048, 0047		
	0081, 0240		
	0000, 0042		
	0072, 0149		
White Westinghouse	0209, 0278		



## Setup codes for cd players:

Aiwa	0157, 0124	Magnavox	0157, 0305
Burmester	0420	Marantz	0029, 0157
California Audio Lab	0029		0180
Carver	0157, 0179	Mission	0157
	0437	NSM	0157
DKK	0000	Nikko	0174
Denon	0003, 0873	Onkyo	0101, 0868
Emerson	0305	Optimus	0000, 0032
Fisher	0179, 0174		0179, 0305
Garrard	0420, 0393		0037, 0420
Genexxa	0032, 0305		0145, 0468
Harman/Kardon	0157, 0173		0437
Hitachi	0032	Panasonic	0029, 0303
JVC	0072	Parasound	0420
Kenwood	0028, 0037	Philips	0157, 0626
	0190, 0681	Pioneer	0032, 0305
	0826		0468, 0244
Krell	0157	Proton	0157
LXI	0305	QED	0157
Linn	0157	Quasar	0029
MCS	0029	RCA	0179, 0305
MTC	0420		0053, 0764

## Setup codes for cd players:

Realistic	0179, 0420
	0180
Rotel	0157, 0420
SAE	0157
Sansui	0157, 0305
Sanyo	0179
Scott	0305
Sears	0305
Sharp	0037, 0180
	0861
Sherwood	0180
Sony	0000, 0185
	0490
Soundesign	0145
Tascam	0420
Teac	0420, 0393
	0174, 0180
Technics	0029, 0303
Victor	0072
Wards	0157, 0053
Yamaha	0036, 0187
Yorx	0461

## Setup codes for amplifiers:

Aiwa	0406
Carver	0269
Curtis Mathes	0300
Denon	0160
Harman/Kardon	0892
JVC	0331
Linn	0269
Magnavox	0269
Marantz	0269
Panasonic	0308
Philips	0269, 0892
Pioneer	0013, 0300
Sony	0220, 0689
Technics	0308
Victor	0331
Wards	0013
Yamaha	0354





Setup codes for tuners:

ADC	0531	Koss	0424
Adcom	0616	LXI	0181
Aiwa	0158, 0189 0121, 0405	Linn	0189
Akai	0224	Lloyd's	0195
Capetronic	0531	MCS	0039, 0346
Carver	0189, 0008 0042, 0360	Magnavox	0531, 0189 0195, 0391
Casio	0195	Marantz	0039, 0189
Clarinette	0195	Modulaire	0195
Curtis Mathes	0080	NAD	0320
Denon	0004	Nakamichi	0097, 0347
Emerson	0424	Onkyo	0135
Fisher	0042, 0219 0360	Optimus	0531, 0670 0186, 0042 0177, 0181
Garrard	0463, 0424		0219, 0738
Harman/Kardon	0110, 0189 0891	Panasonic	0801, 1023 0039, 0309
JBL	0110	Penney	0195
JVC	0074	Philips	0189, 0391
Kenwood	0027, 0186 0042, 0077	Pioneer	0531, 0014 0150, 0630

Setup codes for tuners:

	0080, 1023	Yamaha	0176, 0186
Quasar	0039	Yorx	0195
RCA	0531, 0054 0346, 0360 0530	Zenith	0857
Realistic	0195, 0163 0181		
Sansui	0189, 0346		
Sanyo	0219, 0801		
Scott	0163, 0322		
Sharp	0186		
Sherwood	0491, 0502		
Sony	0158, 0168 0474		
Soundesign	0670		
Teac	0463, 0163		
Technics	0039, 0309 0208		
Victor	0074		
Wards	0158, 0014 0189, 0080 0054		



## Setup codes for DVD players:

Harman/Kardon	0582
JVC	0558
Kenwood	0534
Magnavox	0503
Mitsubishi	0521
Onkyo	0503
Panasonic	0490
Philips	0503, 0539
Pioneer	0525, 0571
Proscan	0522
RCA	0522
Samsung	0573
Sony	0533
Technics	0490
Theta Digital	0571
Toshiba	0503
Yamaha	0490, 0545
Zenith	0503, 0591

## Setup codes for cassette players:

Aiwa	0029, 0197
Carver	0029
Denon	0076
Harman/Kardon	0182, 0029
JVC	0244, 0273
Kenwood	0070
Magnavox	0029
Marantz	0029
Onkyo	0135, 0282
Optimus	0027, 0220
Panasonic	0229
Philips	0029
Pioneer	0027, 0220
	0099
Sansui	0029
Sony	0243, 0170
	0291
Technics	0229
Victor	0273
Wards	0027
Yamaha	0097, 0094

## Setup codes for home automation:

GE	0240
Lutron	0597
One For All	0167
Radio Shack	0240
Security System	0167
Universal X10	0167
X10	0167

## Setup codes for misc. audio:

Aiwa	0010, 0159
	0404
Fisher	0052
Harman/Kardon	0477
JBL	0477
JVC	0073
Jerrold	0459, 0520
RCA	0056
Scientific Atlanta	0460
Sony	0010, 0159
Starcom	0459

## Setup codes for LD players:

Denon	0059
Mitsubishi	0059
NAD	0059
Pioneer	0059
Sony	0193, 0201

