

## 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

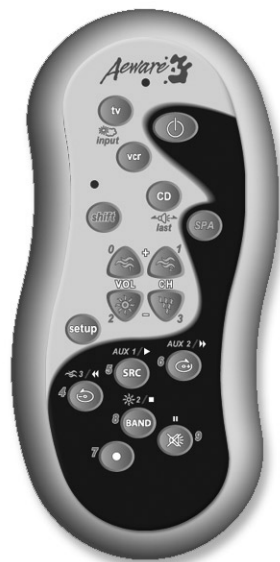
Reassignable device keys

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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | <p><b>Spa mode:</b><br/>Use <b>CH +</b> or <b>CH -</b> to control <b>Pump 2</b> and <b>Blower</b>.</p> <p><b>CD mode (radio):</b><br/>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.</p> <p><b>CD mode (weather band):</b><br/>Use <b>CH +</b> or <b>-</b> to go to the next or previous memorized station.</p> <p><b>CD mode (MP3):</b><br/>Use <b>CH +</b> or <b>CH -</b> to select file up or down.</p> <p><b>Other modes (TV/VCR):</b><br/>Use <b>CH +</b> or <b>CH -</b> to change channels up or down.</p> |



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

**\* 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><br/>Press  to select folder up.</p> <p><b>Spa mode:</b><br/>Press <b>AUX 2</b> to select Aux 2.</p> <p><b>VCR mode:</b><br/>Pressing  will allow you to select forward.</p>                                    |
|          | <p><b>CD mode (radio):</b><br/>Press <b>Band</b> to select between FM1, FM2, FM3, AM1, AM2 and WB (weather band).</p> <p><b>Spa mode:</b> Press  <b>2</b> to select Light 2.</p> <p><b>VCR mode:</b> Press <b>■</b> 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).                                                                                                                   |
|          | 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                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  + <br><i>input</i> | <p><b>CD mode:</b><br/>Press  to access Weather band mode.<br/>Press  again to turn off weather band radio and return to previous mode.</p> <p><b>Other modes (TV/ VCR):</b><br/>Press <i>input</i> once to switch the input of chosen device.</p> |
|  + <br><i>last</i>  | <p><b>CD mode:</b><br/>Successive presses on  will allow you to select from one of the following adjustments:</p> <p>FAD-FRONT: Front speaker only.<br/>FAD-REAR: Rear speaker only.<br/>FAD-ALL: Front and rear speakers.</p> <p><b>Other modes (TV/ VCR):</b><br/>Press <i>last</i> once to recall last channel.</p>              |

**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

|                                                                                          |                      |                                                                                                        |                      |
|------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------|----------------------|
| Aeware  |                      | MADE IN CANADA                                                                                         |                      |
| MODEL:                                                                                   | <input type="text"/> | OPT.:                                                                                                  | <input type="text"/> |
| SERIAL:                                                                                  | <input type="text"/> | + <input type="text" value="AAA"/> <input type="text" value="AAA"/> <input type="text" value="AAA"/> - |                      |



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

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

VCR

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

CD

|   |   |   |   |
|---|---|---|---|
| 0 | 1 | 0 | 1 |
|---|---|---|---|

SPA

|   |   |   |   |
|---|---|---|---|
| 0 | 4 | 2 | 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.

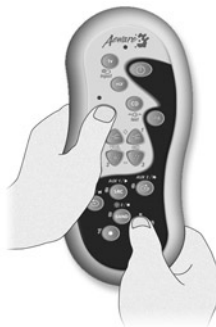
Simply substitute the appropriate mode key (i.e., TV, VCR, CD or SPA) for the device you are checking and repeat steps 1-5.



- 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.

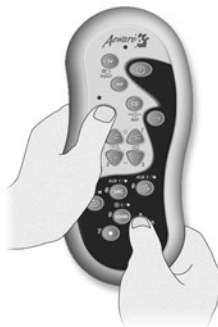
Simply substitute the appropriate mode key (i.e., tv, vcr, CD or SPA) for the device you are checking and repeat steps 1-5.



- 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.

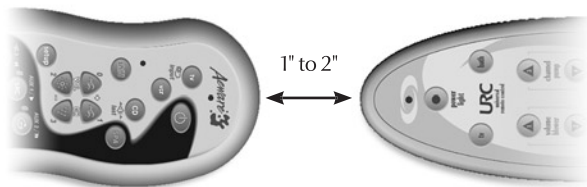
**Note:**

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

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



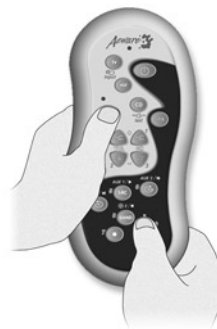
The IRMT-4 has the ability to learn new functions from your original remote controls.



**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 key.
- 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 Aeware. 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.

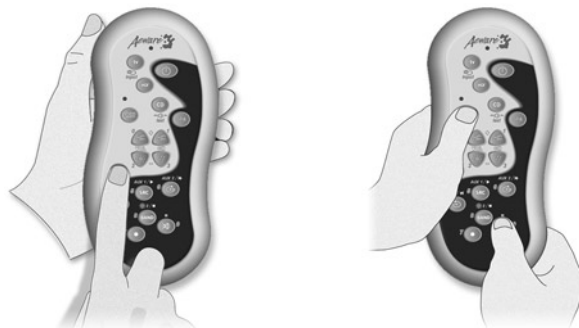


### Limitations:

- 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:

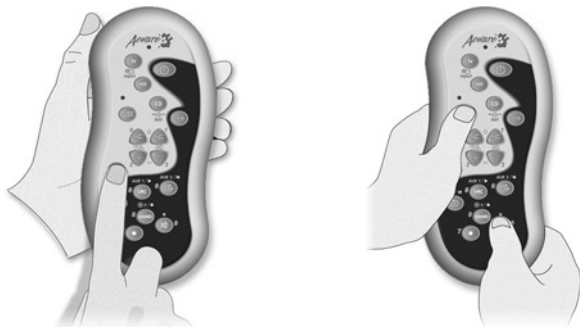
- 1• Press and hold **setup** until LED blinks twice, then release key.
- 2• Enter **9-8-0**. LED will blink twice. Remember to press and hold **shift** key first to access numbers (**0-9**).

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.

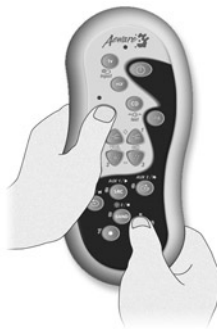


The IRMT-4 Aeware can be set up to control a second TV or VCR, or any combination of three home entertainment devices.

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).

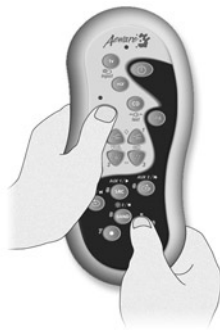


#### Lock volume to one mode:

- 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:

|                  |                                                                                                                          |                  |                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------|
| <b>Problem:</b>  | LED does not blink when you press a key.                                                                                 | <b>Problem:</b>  | No volume on a second TV.                    |
| <b>Solution:</b> | Replace the batteries with three new AAA alkaline batteries (refer to page 4 of this manual).                            | <b>Solution:</b> | Follow instructions in Changing Volume Lock. |
| <b>Problem:</b>  | LED blinks when you press a key, but home entertainment device or SPA does not respond.                                  |                  |                                              |
| <b>Solution:</b> | Make sure the IRMT-4 Aeware is aimed at your home entertainment device and is not further than 15 feet away.             |                  |                                              |
| <b>Problem:</b>  | IRMT-4 Aeware does not control home entertainment devices or commands are not working properly.                          |                  |                                              |
| <b>Solution:</b> | Try all listed codes for the device brands being set up. Make sure they can be operated with an infrared remote control. |                  |                                              |



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

## Setup codes for TVs:

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



## 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       |
| Beaumark       | 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 | Garrard          | 0000       |
|               | 0240, 0072 | Go Video         | 0526       |
|               | 0271       | GoldStar         | 0037, 0038 |
| Curtis Mathes | 0060, 0035 | Gradiente        | 0000       |
|               | 0041, 0162 | HI-Q             | 0047       |
| Cybernex      | 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 | Jensen           | 0041       |
|               | 0000, 0121 | KEC              | 0037, 0278 |
|               | 0043, 0209 | KLH              | 0072       |
|               | 0002, 0278 | Kenwood          | 0067, 0041 |
| Fisher        | 0047, 0104 |                  | 0038       |
| Fuji          | 0035, 0033 | Kodak            | 0035, 0037 |
| Funai         | 0000       | LXI              | 0037       |
| GE            | 0060, 0035 | Lloyd's          | 0000       |
|               | 0048, 0240 | 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 | Noblex    | 0240       |
|                | 0081, 0000 | Olympus   | 0035       |
|                | 0149       | Optimus   | 0037, 0048 |
| Magnin         | 0240       |           | 0104, 0162 |
| Marantz        | 0035, 0081 |           | 0454, 1062 |
| Marta          | 0037       |           | 1162, 1262 |
| Matsushita     | 0035, 0162 | Orion     | 0184, 0209 |
|                | 0454       |           | 0002       |
| Memorex        | 0035, 0037 | Panasonic | 0035, 0162 |
|                | 0048, 0039 |           | 0225, 0454 |
|                | 0047, 0240 |           | 1162       |
|                | 0000, 0104 | Penney    | 0035, 0037 |
|                | 0209, 0046 |           | 0240, 0042 |
|                | 1162, 1262 |           | 0038       |
| Minolta        | 0042       | Pentax    | 0042       |
| Mitsubishi     | 0048, 0067 | Philco    | 0035, 0209 |
|                | 0043       | 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<br>0121, 0405 | Linn      | 0189                                   |
| Akai          | 0224                     | Lloyd's   | 0195                                   |
| Capetronic    | 0531                     | MCS       | 0039, 0346                             |
| Carver        | 0189, 0008<br>0042, 0360 | Magnavox  | 0531, 0189<br>0195, 0391               |
| Casio         | 0195                     | Marantz   | 0039, 0189                             |
| Clarinet      | 0195                     | Modulaire | 0195                                   |
| Curtis Mathes | 0080                     | NAD       | 0320                                   |
| Denon         | 0004                     | Nakamichi | 0097, 0347                             |
| Emerson       | 0424                     | Onkyo     | 0135                                   |
| Fisher        | 0042, 0219<br>0360       | Optimus   | 0531, 0670<br>0186, 0042<br>0177, 0181 |
| Garrard       | 0463, 0424               |           | 0219, 0738                             |
| Harman/Kardon | 0110, 0189<br>0891       | Panasonic | 0801, 1023<br>0039, 0309               |
| JBL           | 0110                     | Penney    | 0195                                   |
| JVC           | 0074                     | Philips   | 0189, 0391                             |
| Kenwood       | 0027, 0186<br>0042, 0077 | Pioneer   | 0531, 0014<br>0150, 0630               |

## Setup codes for tuners:

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

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