

BOSE

3•2•1[®] GS SERIES III

3•2•1 SERIES III

DVD HOME ENTERTAINMENT SYSTEM

Owner's Guide

Guía de usuario



Notice d'utilisation

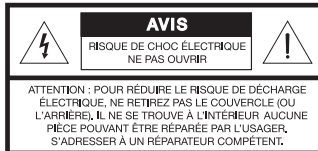
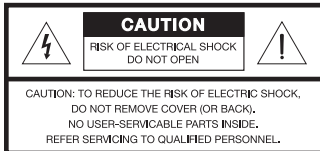


SAFETY INFORMATION



Please read this owner's guide



Please take the time to follow this owner's guide carefully. It will help you set up and operate your system properly and enjoy all of its advanced features. Save this owner's guide for future reference.

-  **WARNING:** To reduce the risk of fire or electric shock, do not expose the system to rain or moisture.
-  **WARNING:** Do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on or near the apparatus. As with any electronic product, use care not to spill liquids in any part of the system. Liquids can cause a failure and/or a fire hazard.



The CAUTION marks shown here are located on the bottom of your 3•2•1® home entertainment system media center and the rear panel of the Acoustimass® module:


-  The lightning flash with arrowhead symbol within an equilateral triangle alerts the user to the presence of uninsulated, dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
-  The exclamation point within an equilateral triangle alerts the user to the presence of important operating and maintenance instructions in this owner's guide.

-  **CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, insert fully.
-  **CAUTION:** Do not place any naked flame sources, such as lighted candles, on or near the apparatus.

Class 1 laser product



This CD player is classified as a CLASS 1 LASER PRODUCT according to EN 60825-1:1994+A1+A2, IEC60825-1:1993+A1+A2.

-  **CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The DVD player should not be adjusted or repaired by anyone except properly qualified service personnel.

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.



Batteries

Please dispose of used batteries properly, following any local regulations. Do not incinerate.

-  This product conforms to the EMC Directive 2004/108/EC and to the Low Voltage Directive 2006/95/EC. The complete Declaration of Conformity can be found at: www.Bose.com/static/compliance/index.html.

Additional safety information

See the additional instructions on the *Important Safety Information* sheet enclosed in the shipping carton.

INTRODUCTION 2

| | |
|------------------------|---|
| Before you begin | 2 |
| For your records | 3 |
| Unpacking | 4 |

SETUP 6

| | |
|--|----|
| 1 Placing the system components 6 | |
| 2 Connecting the speakers to the module | 8 |
| 3 Connecting the module to the media center | 10 |
| 4 Connecting the system video to your TV | 12 |
| 5 Connecting a cable box or other component ... | 17 |
| To connect another component | 19 |
| To get digital audio from the component | 20 |
| To use video pass through | 21 |
| 6 Connecting audio from your TV as an option 22 | |
| 7 Installing the FM and AM radio antennas | 25 |
| 8 Connecting the module to a power outlet | 28 |
| 9 Setting the remote to control your TV and components | 30 |
| Inserting the remote batteries | 30 |
| Setting the remote for your TV | 31 |
| Controlling another component | 32 |

FIRST-TIME USE 33

| | |
|--------------------------|----|
| Trying out the DVD | 33 |
|--------------------------|----|

CONTROLS AND INDICATORS 34

| | |
|---|----|
| The remote control | 34 |
| Power and source buttons | 35 |
| Menu and movement buttons | 36 |
| Play and numeric buttons | 37 |
| Record and A, B, C buttons (not in Europe) | 38 |
| Colored buttons (in Europe only) | 38 |
| The media center | 39 |
| Display | 39 |
| Disc tray | 39 |

OPERATION 40

| | |
|--|----|
| Playing a video disc or CD | 40 |
| Selecting a play option | 40 |
| Keeping your discs clean | 41 |
| Checking for disc compatibility | 42 |
| For DVDs: Setting Parental Control | 42 |
| Choosing a password | 42 |
| Setting a restriction level | 43 |
| Ratings supplied by the MPAA | 43 |

| | |
|--|-----------|
| Playing a cable box or other component | 44 |
| Adjusting for audio delay | 44 |
| Getting digital audio from a source | 45 |
| Choosing other options | 45 |
| Listening to the radio | 46 |
| Creating a preset | 46 |
| Removing a station from a preset | 46 |
| | |
| ADJUSTMENTS TO THE PERFORMANCE | 47 |
| <hr/> | |
| Changing system features | 47 |
| To get to the System menu | 47 |
| Selecting a new option | 48 |
| Language choices | 48 |
| | |
| Audio options | 49 |
| | |
| Video options | 50 |
| | |
| Media center options | 52 |
| Choosing new settings | 53 |
| To get to the Settings menu | 53 |
| Settings options | 54 |

| | |
|--------------------------------------|-----------|
| REFERENCE | 59 |
| <hr/> | |
| Replacing remote batteries | 59 |
| Protecting the system | 59 |
| Cleaning the media center | 59 |
| Cleaning the speakers | 59 |
| Troubleshooting | 60 |
| For customer service | 63 |
| Limited warranty | 63 |
| Technical information | 64 |

| | |
|--|-----------|
| COPYRIGHT AND LICENSE PROTECTIONS | 69 |
| <hr/> | |

| | |
|---------------------|------------|
| DEVICE CODES | A-1 |
| <hr/> | |

INTRODUCTION

Before you begin

Thank you for purchasing the 3•2•1® DVD home entertainment system. Using Bose® proprietary signal processing technology, the 3•2•1 system provides improved spaciousness from stereo recordings and bold movie effects for surround-sound sources.

System features include:

- Small, easy-to-place shelf speakers
- Easy-to-hide Acoustimass® module
- Integrated DVD/CD player and AM/FM tuner
- Remote and media center controls
- HDMI video connection to your TV
- Audio In connectors for three components
- Your choice of language for text displays

INTRODUCTION

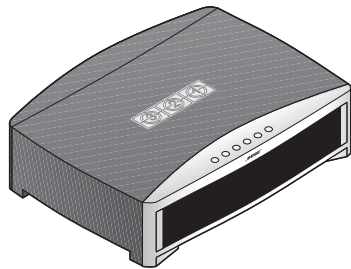
Unpacking

Carefully unpack your system. Save all packing materials, which provide the safest way to transport your system. Make sure your system includes the parts shown.

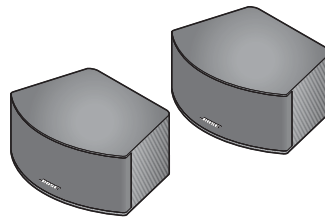
WARNING: To avoid danger of suffocation, keep the plastic bags out of the reach of children.

As you identify them, you may want to place a check mark in the box next to the name of each part.

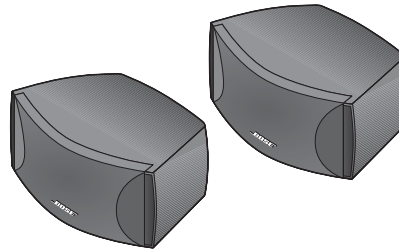
If any part of the system appears damaged, do not try to use it. Notify Bose or your authorized Bose® dealer right away. For contact information, refer to the address sheet included in the carton.



Media center



3•2•1® GS speakers



3•2•1 speakers



Acoustimass® module



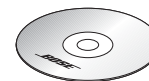
Remote control and batteries



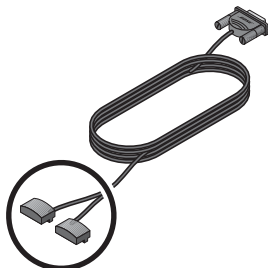
Rubber feet for Acoustimass® module



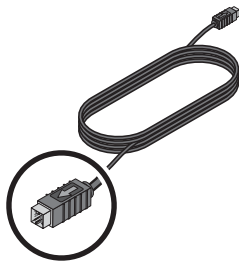
Rubber feet for speakers



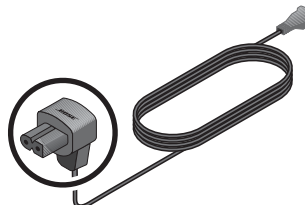
Setup disc



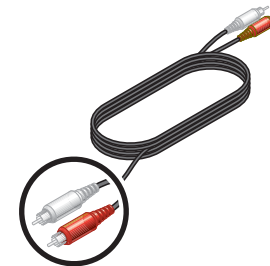
Speaker cable



Acoustimass module cable



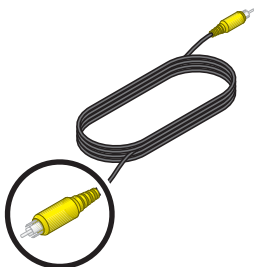
Acoustimass module power cord



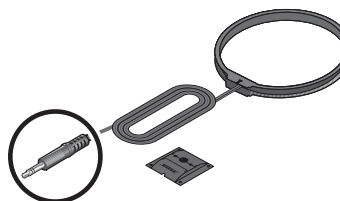
Stereo audio cable



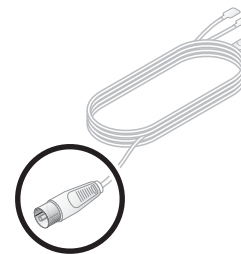
HDMI video cable



Composite video cable



AM antenna and stand



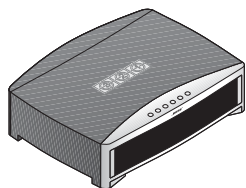
FM antenna

SETUP

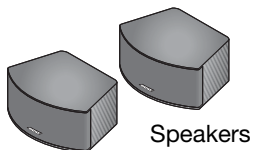
1

Placing the system components

What you need to use:

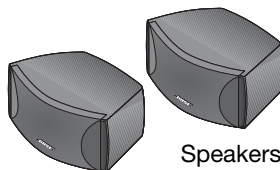


Media center

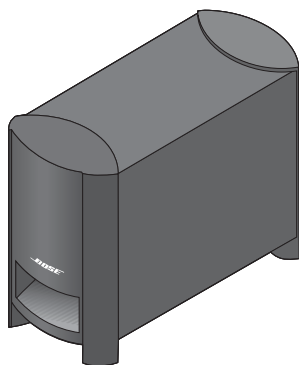


Speakers

OR

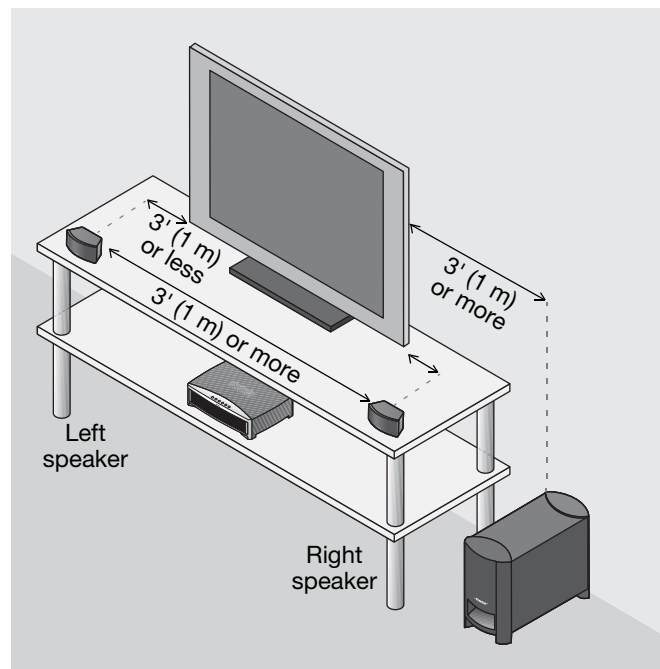


Speakers



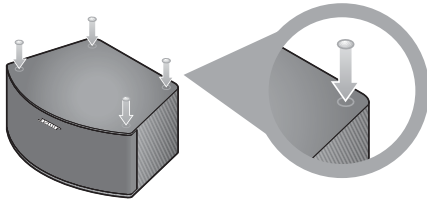
Acoustimass® module

The image below shows one of the many ways you can position your new 3•2•1® system.

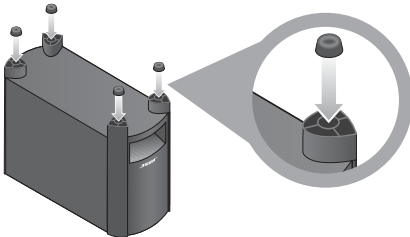


See Steps 1-6 for details.

1. On the bottom of each speaker, attach one set of small rubber feet.



2. Place the left and right speakers:
 - at least 3 feet (1 meter) apart
 - within 3 feet (1 meter) of the TV screen
 - near the front edge of any shelf
 - aimed straight ahead (not angled) to face the listening area
3. On the legs of the Acoustimass® module, attach the large rubber feet.



4. Place the Acoustimass module:
 - at the same end of the room as the speakers and your TV
 - at least 3 feet (1 meter) from the TV to prevent interference with the screen
 - several feet (.8 meters) from audio or video tapes to prevent magnetic damage to them
 - standing upright, not lying on a side, the front, or the back
 - with the front port aimed out from or along a wall for balanced performance
 - hidden under a table, behind a sofa or chair, or behind drapes as preferred
 - NOT in an enclosure, on a bed, on a sofa, or on a surface that can block the ventilation openings.

CAUTION: Do not block ventilation openings on the bottom and rear of the module.

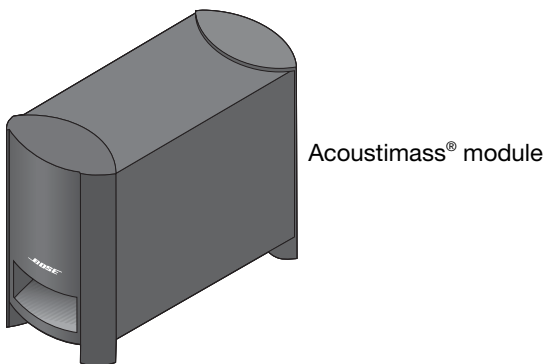
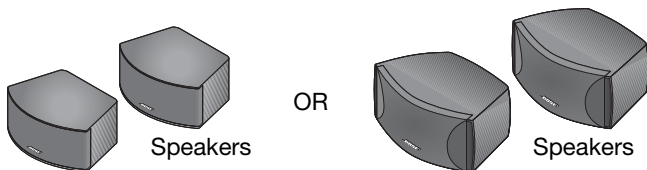
5. Place the media center:
 - where nothing obstructs the front panel
 - near any components you will connect
6. Continue with **2** on the next page.



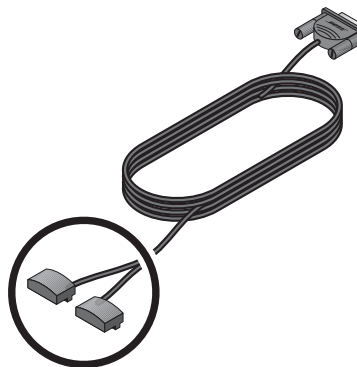
SETUP

2 Connecting the speakers to the module

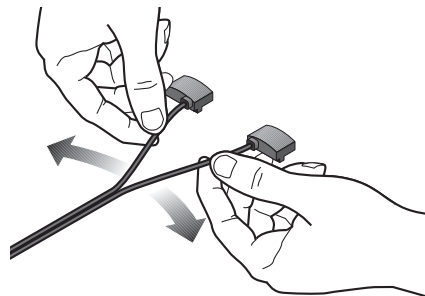
What you need to use:



1. Notice the two plugs at one end of the speaker cable.



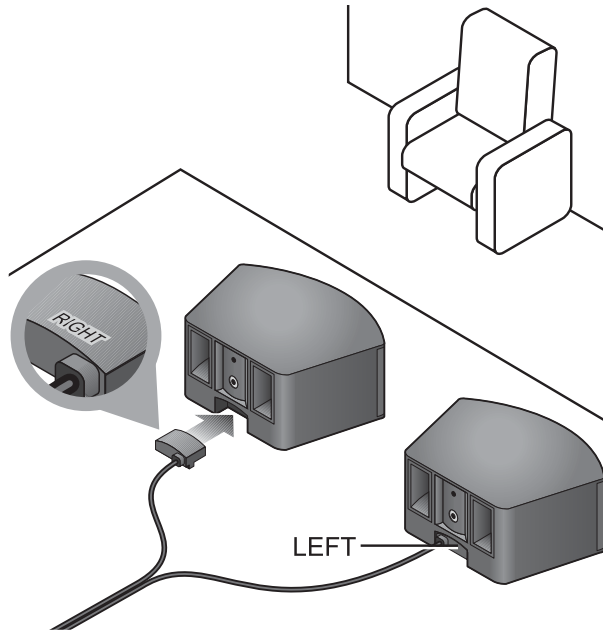
2. Separate the two plugs so each one reaches a speaker.



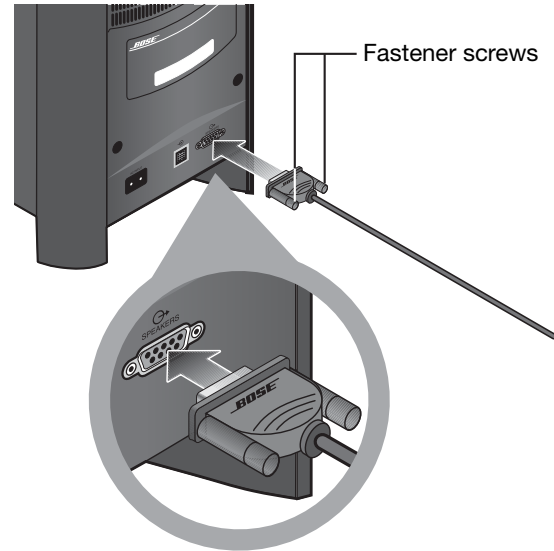
(Refer to **1** for placement guidelines.)

3. Insert each plug into the connector on the proper speaker.

The plug marked RIGHT goes into the speaker placed to the right of your TV.



4. Insert the remaining single plug into the connector labeled SPEAKERS on the back of the Acoustimass® module.



5. Tighten each fastener screw by hand to secure the plug.

CAUTION: Do not plug the Acoustimass module into an AC power (mains) outlet until all other components are connected.

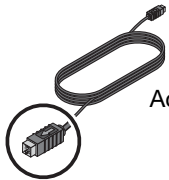
6. Continue with **3** on the next page.

SETUP

3

Connecting the module to the media center

What you need to use:



Acoustimass® module cable

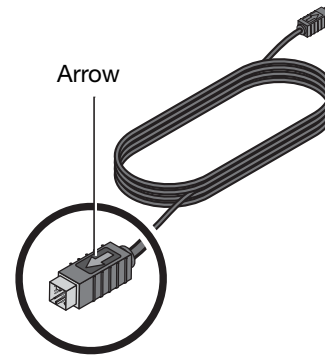


Media center




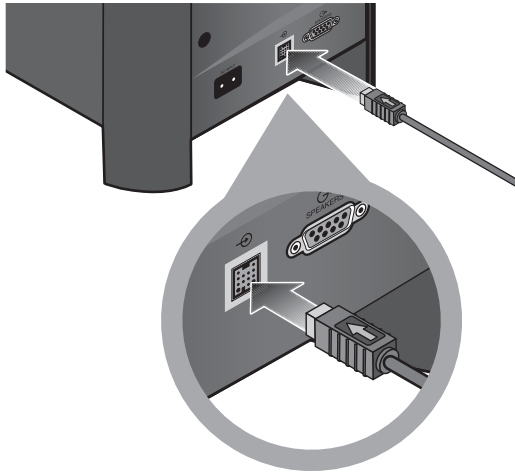
Acoustimass module

1. Notice the arrow on the top of the multi-pin plug at each end of the Acoustimass module cable.



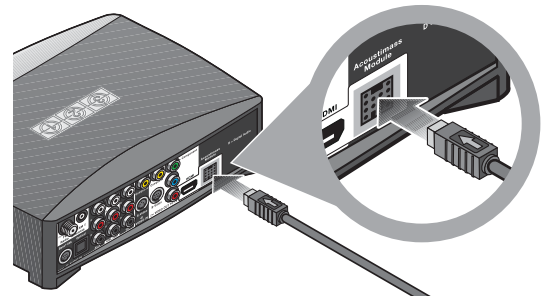
2. Make sure you can see the arrow on top before you insert either end of the cable.

3. Insert this plug into the connector labeled  on the back of the Acoustimass® module.



Make sure the arrow on the plug faces up as you insert it.

4. On the other end of the cable, make sure you can see the arrow on top of the plug.
5. Insert this plug into the connector labeled Acoustimass Module on the back of the media center.



6. Continue with **4** on the next page.

SETUP

4

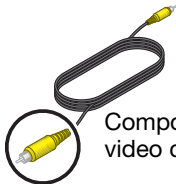
Connecting the system video to your TV

What you may need to use:



HDMI
video cable

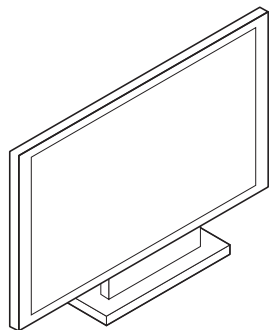
OR



Composite
video cable



Media center



Your TV

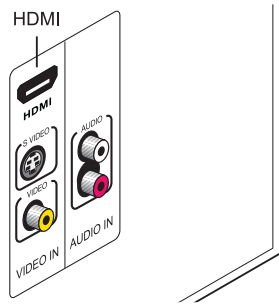
This connection allows you to see DVDs and other video from the 3•2•1® system on your TV.

1. Select the HDMI video cable.



2. Check to see if your TV has an unused HDMI connector for VIDEO IN.

This may be located on the side or rear connector panel of the TV.



3. Follow the directions that are appropriate for your TV:

TV with HDMI

on page 14

or

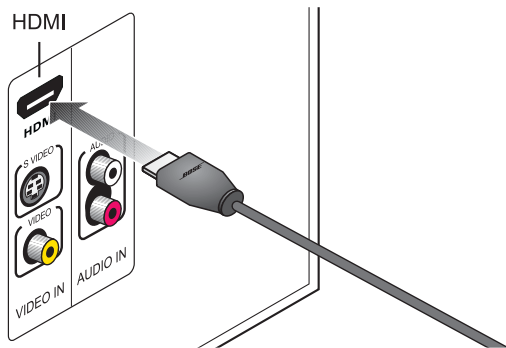
TV without HDMI

on page 15

SETUP

TV with HDMI

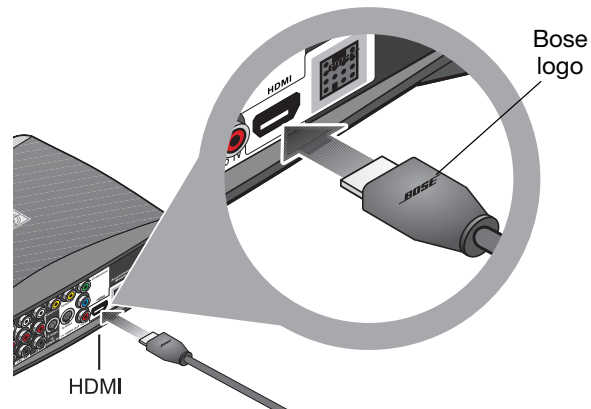
1. Insert one end of the HDMI cable into the HDMI connector on your TV.



Match the wide side of the plug to the wide side of the connector.

2. Insert the other end of this cable into the HDMI connector on the media center.

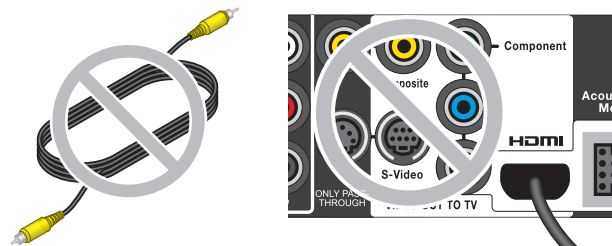
Make sure the Bose® logo shows as you insert the plug.



3. Continue with **5** on page 17.

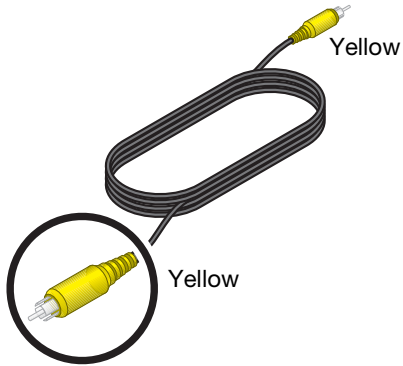
Note: If you make this HDMI connection, you do not need the supplied yellow Composite video cable to make any connections.

DO NOT use either of the two ONLY PASS-THROUGH connectors on the back of the media center for video from a component. Neither S-Video nor Composite signals can pass through the HDMI cable to the TV.



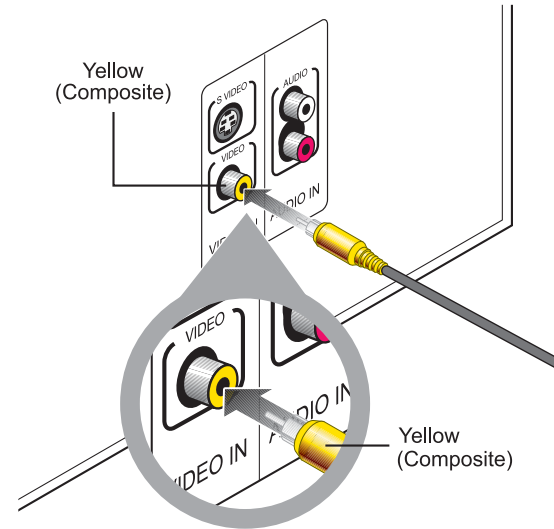
TV without HDMI

1. Notice the yellow plug at each end of the Composite video cable.



Note: There may be other kinds of video connectors on your TV that offer higher resolution than Composite. To use either S-Video or Component connectors, you need the appropriate cables. These cables are available at most electronics stores.

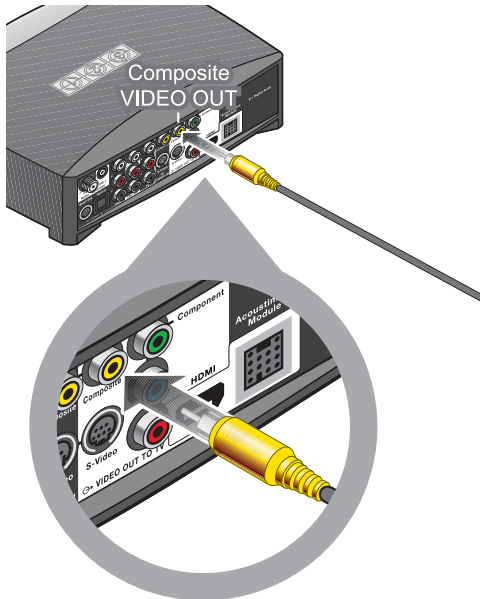
2. Plug the Composite video cable into the yellow VIDEO IN connector on your TV.



Note: If there is just one Composite Video In connector on your TV, it may be in use already for another video component. You can disconnect that component from the TV, and see "To use video pass through" on page 21.

SETUP

3. Insert the other end into the yellow Composite VIDEO OUT connector on the back of the media center.



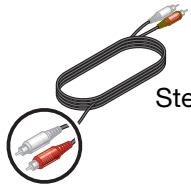
.a

Note: If you make this Composite connection, you can use the *ONLY PASS-THROUGH* connector on the media center for video from another component. See “To use video pass through” on page 21 for further information.

4. Continue with **5** on the next page.

5 Connecting a cable box or other component

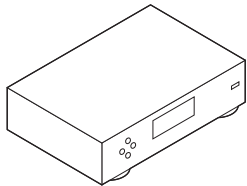
What you need to use:



Stereo audio cable



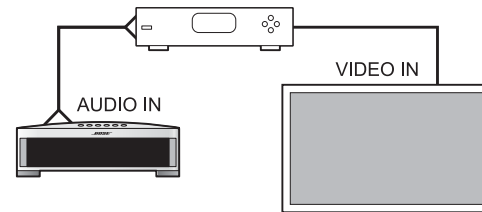
Media center



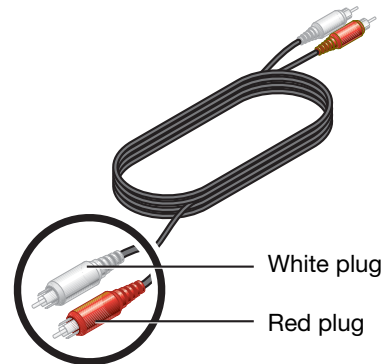
Your cable box, satellite box, or other component

You can listen to another sound source — like a cable or satellite box — through the 3•2•1® speakers instead of your TV.

This requires an audio connection only. Leave the video from your component connected to your TV.



5. Select the audio cable that has red and white plugs at each end.

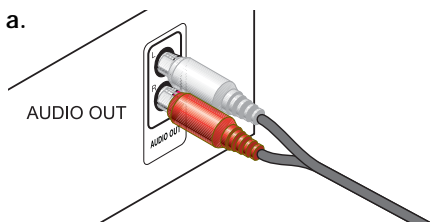


SETUP

6. Check to see if your cable or satellite box has red and white AUDIO OUT connectors.

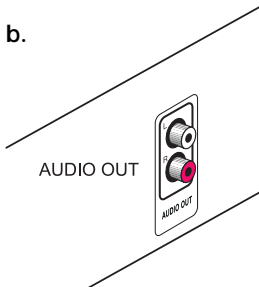
A red and white audio cable may (a) or may not (b) already be attached to these connectors.

a.



OR

b.

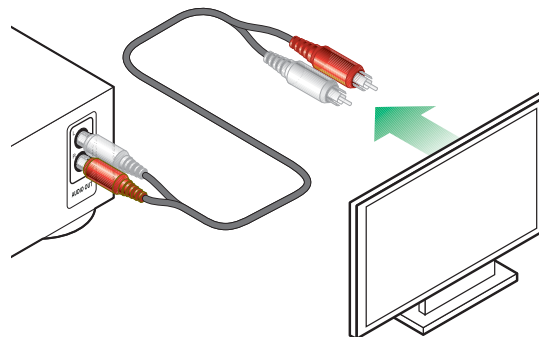


- c. If there are no AUDIO OUT connectors at all, continue with **6** on page 22.

3. To use the AUDIO OUT connectors, follow a or b as appropriate.

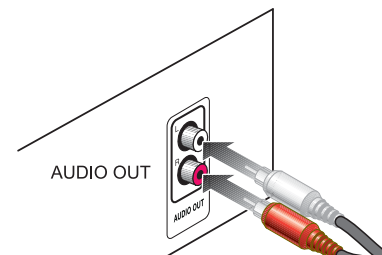
a. If an audio cable is already attached

Disconnect the cable from the TV only.

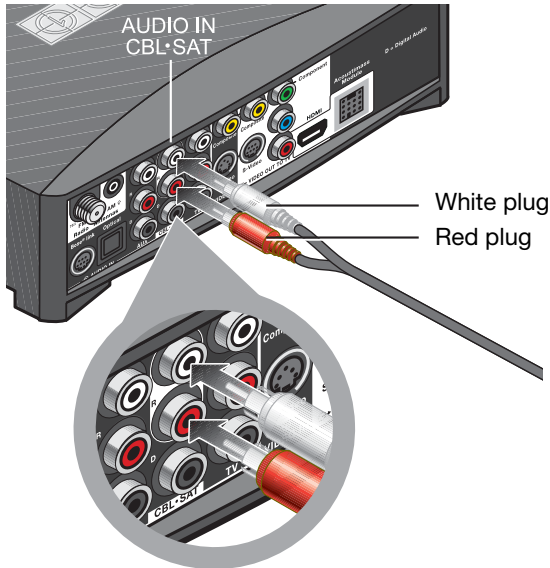


b. If an audio cable is not yet attached

Connect the cable to your cable or satellite box. Be sure to connect red to red and white to white.



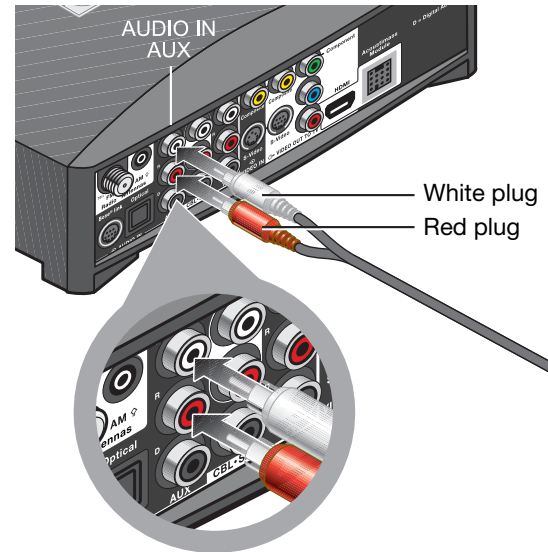
4. Insert the plugs at the other end of the audio cable into the CBL•SAT AUDIO IN connectors on the media center.



To connect another component

In addition to your cable or satellite box, you can connect a second component, like a VCR. For this you need another audio cable with red and white plugs, available at most electronics stores.

1. Use this additional cable to connect to the AUDIO OUT on your component. Follow the method used in steps 1-3 on the previous pages.
2. Connect the other end of this cable to the AUDIO IN AUX on the 3•2•1® system media center.



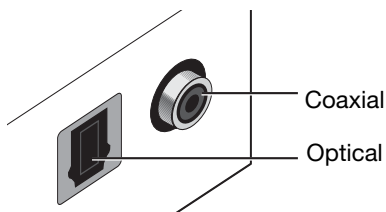
SETUP

To get digital audio from the component

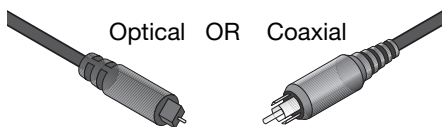
For a component that is already connected to the media center, you can make a digital audio connection too.

For this higher quality audio, you need a digital audio cable that works with your component. Such cables are available at most electronics stores.

1. Identify the digital connector on your component as either an Optical or Coaxial connector.



2. Be sure to use the right cable for this connector.

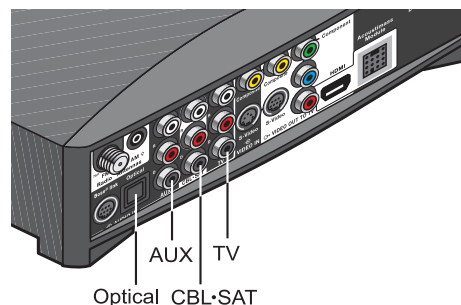


Note: If your component has an Optical and a Coaxial connector, use either one but not both.

3. Connect one end of your digital cable to the digital AUDIO OUT connector on your component.

Be sure to keep the red and white audio cable connected. This allows you to hear the audio if the program audio is not digital or the digital signal is interrupted.

4. Locate the appropriate digital AUDIO IN connector, labeled D, on the system media center.

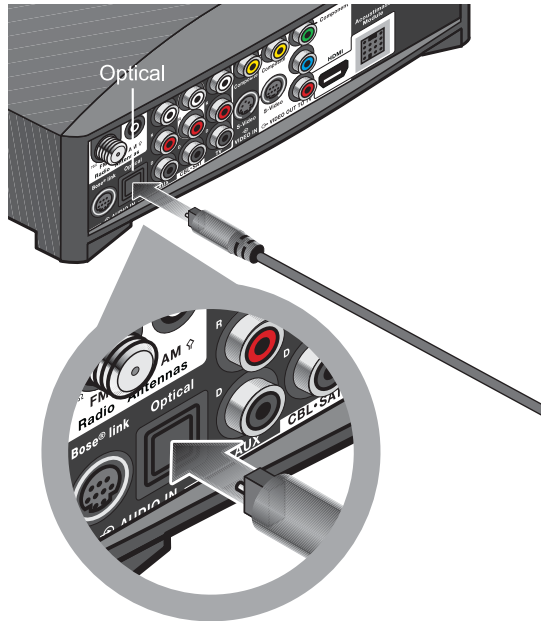


You can make:

- up to 3 coaxial connections
- up to 2 coaxial and one optical connection

Note: The media center Optical connector is factory set to work with a cable or satellite box. If your Optical component is neither of those, you need to select your component in an on-screen System menu. See “Getting digital audio from a source” on page 45.

5. Plug the other end of your digital cable into the appropriate AUDIO IN connector on the media center.



The example here shows an Optical digital connection only.

To use video pass through

This calls for another composite cable or two S-Video cables, which are available at most electronics stores.

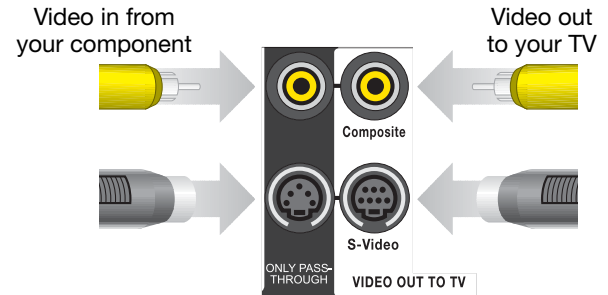
You can make a pass through connection if:

- You have a Composite or S-Video connection between the TV and the media center (not HDMI or Component).

AND:

- You want to connect another video component through the media center to the TV.

Be sure to use one matched pair as shown here:



DO NOT use either of the two ONLY PASS-THROUGH connectors (on the left) if you have made an HDMI or Component connection VIDEO OUT TO TV.

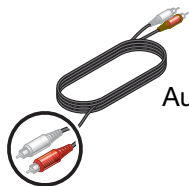
Continue with **6** on the next page.

SETUP

6

Connecting audio from your TV as an option

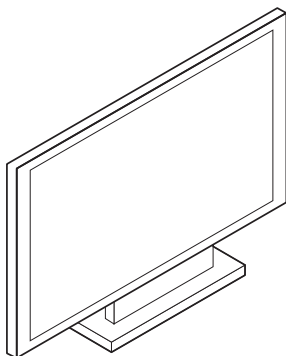
What you need to use:



Audio cable



Media center



Your TV

For some setups, in order to hear your TV sound from your 3•2•1® speakers, you need to make this connection.

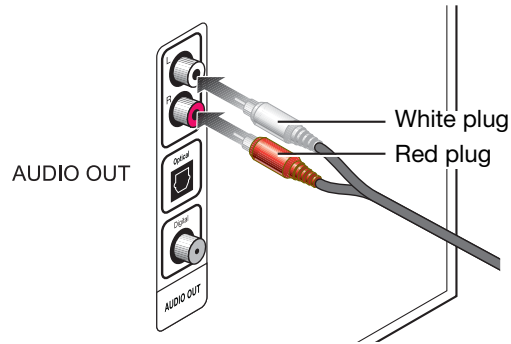
If:

- Your cable box does not provide red and white AUDIO OUT connectors.
- You watch TV programs without using a cable or satellite box.
- You connect a video camera or game console to your TV.

If none of the above apply, continue with **7** on page 25.

Note: If you have already connected the audio cable provided with the system, you need another cable for this connection. These cables are available at most electronics stores.

1. Insert the red and white plugs at one end of the cable into the AUDIO OUT connectors on the TV.



Be sure to match red to red and white to white.

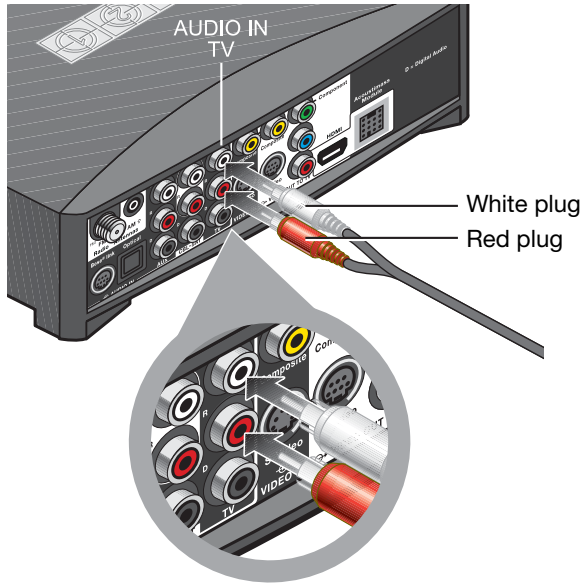
Note: In addition to this connection, you can make a digital AUDIO OUT connection from the TV to the media center. For more information, review “To get digital audio from the component” on page 20.

Note: If your TV does not provide AUDIO OUT connectors, you cannot connect the TV audio to the 3•2•1® system. Continue to use your TV speakers for TV program audio.

The audio from other components that are connected to the 3•2•1 media center will play through the 3•2•1 speakers.

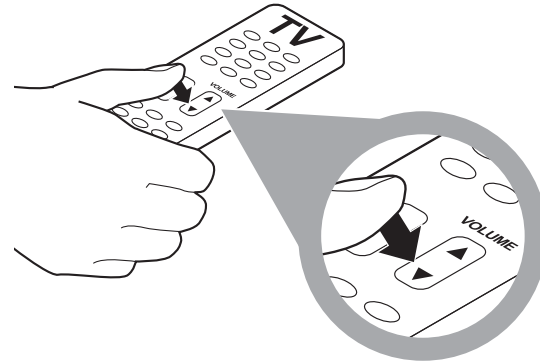
SETUP

2. Insert the red and white plugs at the other end of this cable into the AUDIO IN TV connectors on the media center.



Be sure to match red to red and white to white.

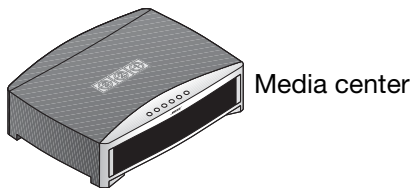
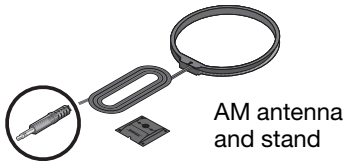
3. Use your TV remote control to turn the TV speakers down to minimum volume.



This prevents the echo effect of audio playing through both the TV speakers and your 3•2•1® system speakers.

7 Installing the FM and AM radio antennas

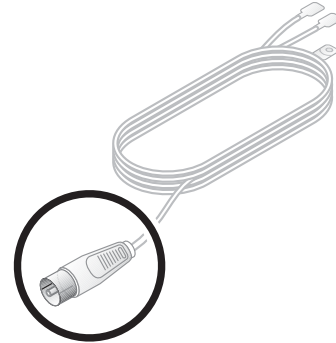
What you need to use:



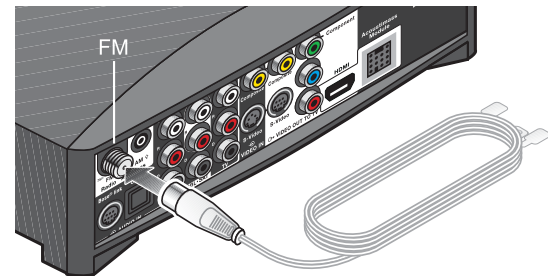
For radio reception of broadcast radio programs, you need to use the supplied antennas.

For FM:

1. Select the FM antenna.



2. Insert the antenna plug into the FM antenna connector.



SETUP

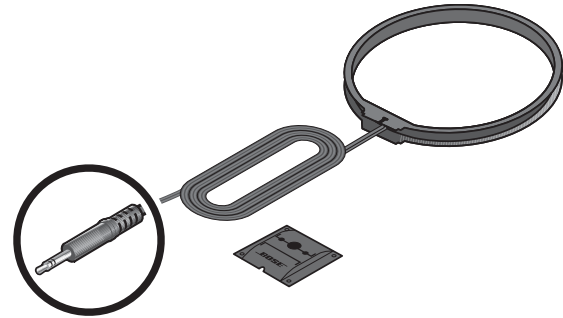
3. Straighten the antenna cable and spread the two ends far apart.



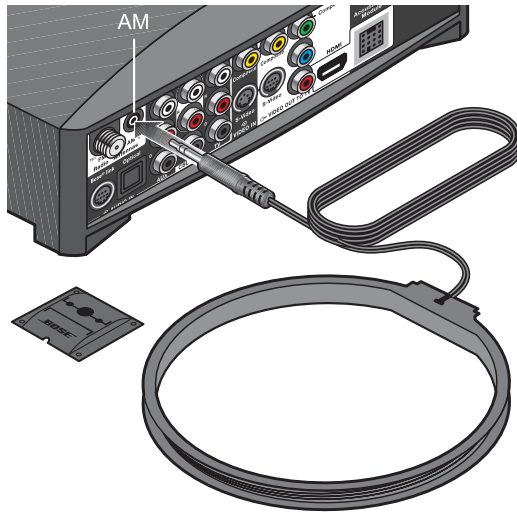
You may need to raise the ends and adjust the position to get clear reception.

For AM:

1. Select the AM antenna and stand.

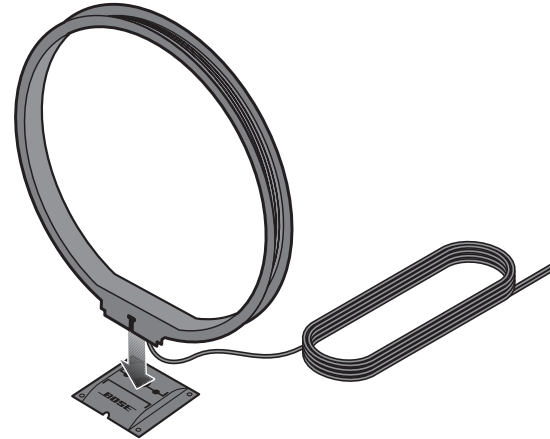


2. Insert the antenna plug into the AM antenna connector.



3. Press firmly to attach the antenna loop to the provided stand.

Small tabs on the antenna ring fit into notches on the stand.



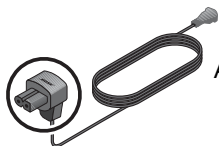
4. Place the antenna in an upright position and at least 20 inches (50 centimeters) from both the media center and the Acoustimass® module.
5. Continue with **8** on the next page.

SETUP

8

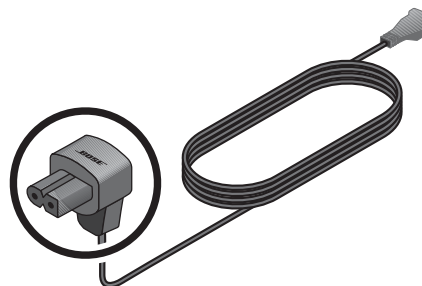
Connecting the module to a power outlet

What you need to use:



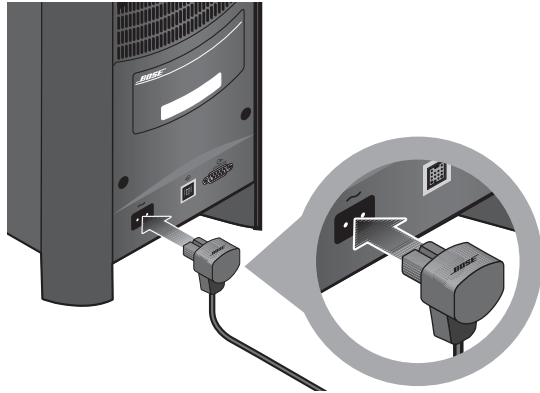
Acoustimass® module power cable

1. Notice the large plug at one end of the Acoustimass module power cable.



Acoustimass module

2. Insert this plug into the power connector that is marked ~ on the Acoustimass® module.



Note: On some systems, the Acoustimass module includes one of two controls.

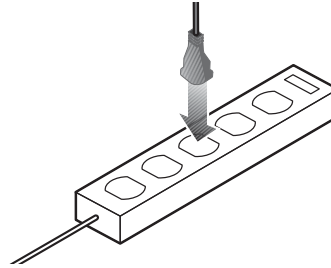
On 220-240V models only, turn the POWER switch to on (I).



On dual-voltage systems only, set the voltage switch for the power that is appropriate to the region where you use the system.



3. Plug the other cable end into the AC (mains) power.



CAUTION: Bose recommends using a safety agency-approved surge protector on all electronic equipment. Voltage variations and spikes can damage electronic components in any system.

Note: Surge protectors are available at most electronics stores.

4. Continue with **9** on the next page.

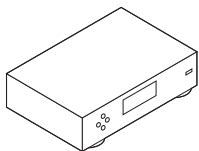
SETUP

9 Setting the remote to control your TV and components

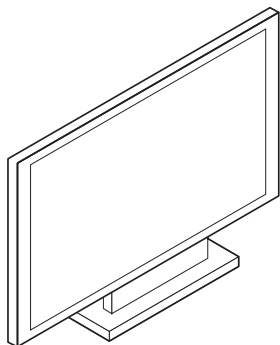
What you need to use:



Remote control and batteries



Your component



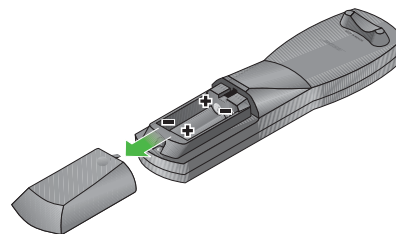
Your TV

When the batteries are installed, you can set the 3•2•1® remote to control your TV and other components connected to the media center.

Inserting the remote batteries

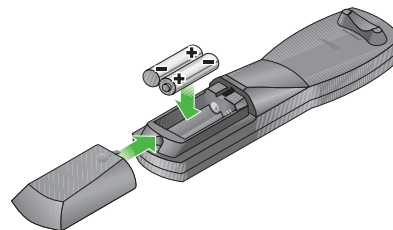
The two supplied AA batteries go into the compartment on the back of the remote control.

1. Slide the battery compartment cover off.



Symbols inside the compartment show how to match the – and + symbols on the batteries.

2. Insert the two batteries, making sure to match the markings.



3. Slide the cover back until it clicks into place.

Setting the remote for your TV

To use the 3•2•1® remote with your TV, you must set the remote for the proper TV device code.

1. Refer to the list of “Device codes” on page A-1.
2. In the list for TVs, find the brand of your TV.
3. Write down several codes for your brand so you can try more than one, if needed.

Note: *If one code works to turn your TV on and off but does not change channels, you can try other codes to find one that provides more complete TV control.*

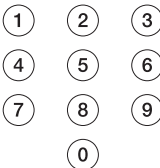
4. Turn on the TV and your 3•2•1 system.

5. On the 3•2•1 remote, press and hold the TV button for several seconds.



Wait until the red light at the top of the remote turns on.

6. Use the number buttons on this remote to enter the device code for your TV.

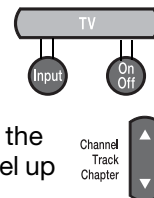


The light turns off briefly as you press each key.

7. Make sure the light turns off completely after all digits are entered.

If the light blinks now, the code is invalid. Return to step 5 and try a different code for your TV.

8. Point the 3•2•1 remote at your TV and press the TV On/Off button.



Use the 3•2•1 remote to turn the TV on again and change channels, using the number buttons or by pressing Channel up or down.

If it performs both operations, this code is correct. Write the code numbers below:

If this code does not work, repeat steps 5-8 using a different code for your TV.

Note: *For a CD changer or combination CD/DVD player and changer, your brand may not be listed in the CD/DVD device codes on page A-21. In some cases, the same brand of DVD or VCR device codes can work with a changer.*

SETUP

Controlling another component

With your CBL•SAT, VCR, or other component turned on, follow these steps.

1. In the Device Codes list, find the codes for the type and brand of your component.

2. On the 3•2•1® remote, press and hold the button for this component for several seconds.



Wait until the red light at the top of the remote turns on.

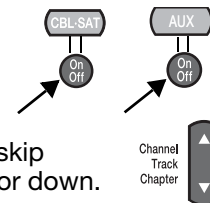
3. Enter the device code for your component.

The light turns off briefly as you press each key.

4. Make sure the light turns off completely after all digits are entered.

If the light blinks instead of turning off, the code is invalid. Return to step 2 and try a different code for your component.

5. Point the 3•2•1 remote at your component and press the On/Off button for this source.



Use the 3•2•1 remote to turn the component on again and to skip forward by pressing channel up or down.

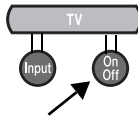
If it performs both operations, this code is correct. Write the code numbers below:

If this code does not work, repeat steps 2-5 using a different code for your component.

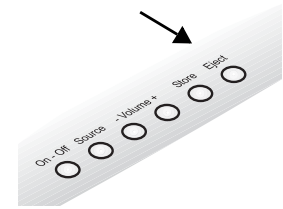
Trying out the DVD

When you first turn on the system, you can play the provided DVD to get a step-by-step review of your setup.

1. Before you continue, make sure that:
 - All of the cables needed for your setup are connected.
 - Batteries are installed in the 3•2•1® system remote control.
 - The system power cord is plugged in at both ends.
2. Turn on your TV.
 - Use the TV On/Off button on the 3•2•1 remote if you have it set up to control your TV.
 - Or use the remote control that came with the TV.
3. Play the provided DVD.
 - a. Point the 3•2•1 remote control at the media center and press CD/DVD.



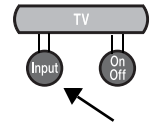
- b. On the media center controls, press Eject.
- c. Insert the disc into the disc tray.
- d. Press Eject again to close the tray and begin automatic play.
- e. If the DVD does not begin playing, press the play button on the remote.



Playing the DVD helps verify that your system setup is correct.

Note: If you do not see the DVD video on your TV screen, change the Video Input on the TV.

Use the TV Input button on the 3•2•1 remote if you have it set up to control your TV.



Or use the button for Video Input on your TV remote control. For more information, refer to the owner's manual that came with your TV.

If you STILL do not see the DVD image on your screen, see the problem identified as "Sound, but no picture" under Troubleshooting on page 62.

CONTROLS AND INDICATORS

The remote control

Aim the 3•2•1® remote control at the media center or at the component you are controlling with the remote.

1. Press the white On/Off button near the top of the remote control.

The system turns on to the last used source*, which may be:

- CD•DVD
- FM•AM
- TV
- CBL•SAT
- AUX

If your media center does not respond to the remote:

- Make sure there is nothing blocking the front display where signals are received.
- Aim more directly at the media center.
- Move closer to the system.
The control range of the remote is roughly 20 feet (6.2 meters).

**If your 3•2•1 system is connected by Bose® link cable to a Lifestyle® system in another room, your Lifestyle® system could be the selected source.*

2. Get to know how the remote works:
 - See the brief descriptions on pages 35-38.
 - Try out the various buttons to see how they work.



Power and source buttons



Turns the 3•2•1® system on and off.
Play begins with the source last used.



Silences or restores the sound.

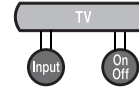


Selects the built-in CD/DVD player as source and turns on the system.



Selects the built-in FM/AM radio as source and turns on the system to the station last used.

Switches between FM and AM when the radio is playing.





Selects audio from the TV source and turns your 3•2•1 system on if it was off.

If the remote is set up control your TV:

- Input selects a TV Video Input.
- On/Off turns the TV on and off.

Your remote also provides one of the two buttons shown here:

- For adjusting the on-screen aspect ratio of video from cable, satellite, or TV (but not DVD). 
- For displaying teletext information that is provided with broadcast programs (in Europe only). 



Selects the audio from the device connected to CBL•SAT on the media center rear panel.

Turns your 3•2•1 system on if it was off.

If the remote is set up to control this source, On/Off turns the cable or satellite box on and off.



Selects the audio from the device connected to AUX on the media center rear panel.

Turns your 3•2•1 system on if it was off.

If the remote is set up to control this source, On/Off turns the AUX device on and off.

CONTROLS AND INDICATORS

Menu and movement buttons



Settings

Enters the Settings menu for the source that is playing.



System

Enters the System main menu.



DVD Menu

Displays the DVD menu for the current disc on your TV screen.



Guide

Displays an on-screen program guide for any connected video devices that provide a guide.



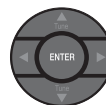
Exit

Exits the 3•2•1® Settings or System menu.
Exits the on-screen menus or information screens of other connected video sources.



Page

Moves ahead or back by one page in an electronic program guide, if one is available.



Confirms the selection of a menu item.



Moves up, down, left, or right in a menu or screen.



Tunes the FM/AM radio up or down to the next frequency.

Selects the next or previous item in a menu list.



Volume

Raises or lowers the volume.

- Pressing + raises the volume and unmutes the system (if muted).
- Pressing – lowers the volume.

Channel
Track
Chapter

Skips backward or forward to the next:

- TV, cable, or satellite channel
- CD track
- DVD chapter

Play and numeric buttons



Halts play of recorded music or video.



Pauses or resumes paused play of recorded music or video.



Starts or resumes play of recorded music or video.



For CD or MP3: Moves to the previous or next track.

- Press and hold scans through a track.

For DVD and DVR: Moves backward or forward in video.

- More presses increase the speed.

For FM/AM: Moves to the previous or next strong radio station.



For CD: Randomly plays the music.

- Pressing again ends random play.

For DVR: Moves backwards a few seconds with each press.



For CD or MP3: Repeats the current track.

- Pressing again repeats the disc.
- Pressing three times ends the repeat.

For DVR: Moves forward a few seconds with each press.



For CD: Selects a track.

For DVD: Selects a chapter.



For TV, cable, or satellite: Selects the channel of the numbers pressed.



For FM/AM: Selects a preset radio station.



Info

For CBL•SAT: Displays or dismisses an on-screen information window (if one is available).

For MP3: Holding down the button displays or dismisses artist and title information on the media center display panel.







Previous

For TV, cable, or satellite: Returns to the channel last selected.

CONTROLS AND INDICATORS





Record and A, B, C buttons (not in Europe)

These buttons can be used with a DVR, VCR, a cable box, or satellite box. This requires that the 3•2•1® remote is set to control the component.

-  Starts DVR or VCR recording of the cable, satellite, or TV program that is playing.
-  Makes a selection from a cable on-screen List A.
-  Makes a selection from a cable on-screen List B.
-  Makes a selection from a cable on-screen List C.

Colored buttons (in Europe only)

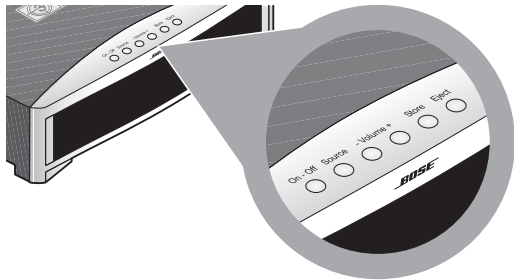
These buttons can be used with Teletext, a cable box, or a satellite box (if the 3•2•1 remote is set to control the box).

-  Red – Selects the screen content labeled red.
-  Green – Selects the screen content labeled green.
-  Yellow – Selects the screen content labeled yellow.
-  Blue – Selects the screen content labeled blue.

The media center

The front of the media center features:

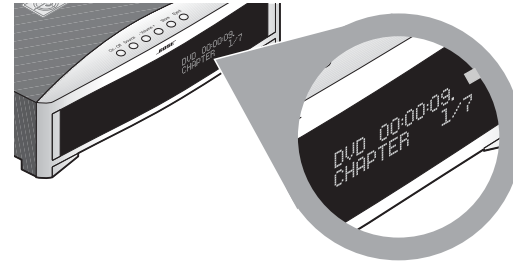
Control buttons



| | |
|------------|---|
| On•Off | Turns the system power on or off. |
| Source | Displays and sets the choice of play options. |
| - Volume - | Lowers or raises the volume level. |
| Enter | Selects the next available radio preset. |
| Eject | Opens or closes the disc tray. |

Note: When you use the Source button on the media center to select a connected component for play, your 3•2•1® remote will not control that component. Press the CBL•SAT or AUX button on the remote to control that source.

Display

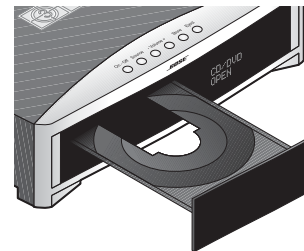


When the system is turned on, the display shows:

- selected source (CD/DVD, for example)
- source status (stopped, for example)
- source data (elapsed DVD time, for example)
- system status (like disc tray OPEN, shown below)

Disc tray

Use the Eject button to open and close this tray. Do NOT push the tray to close it.



OPERATION

Playing a video disc or CD

1. Press CD•DVD on the 3•2•1® remote.

This turns on the 3•2•1 system and selects the CD/DVD source.

For video play, also turn on the TV.

You may need to change the TV Video Input to see the correct video.

Note: To prevent mid-play video disc problems, be sure the disc is clean. This is particularly important with rented DVDs.

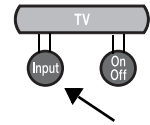
2. On the media center control panel, press Eject to open the disc tray.
3. Place the disc (right side up) in the tray.
4. Press Eject again to close the tray.
The disc begins to play automatically.
If not, press Play on the 3•2•1 remote.

The media center display registers disc information and progress as the play continues.

Note: If the display text is not in your language, see “Language choices” on page 48.

Note: There are several ways to select a TV Video Input:

- If your 3•2•1 remote is set to work with your TV, press the TV Input button.
- If the remote is not set to work with your TV, use the Input button on your TV remote control. Or see your TV owner’s guide for instructions.



Selecting a play option

If you want to:

Interrupt play, press Pause on the remote control.



- To resume playing a paused disc, press Pause again. Or press Play.



Halt play, press Stop.



- To resume playing a stopped disc, press Play.
- To restart the disc at the beginning, press Stop once more and then press Play.



Skip to the next CD track or DVD chapter, press Chapter up.



Skip to the previous CD track or DVD chapter, press Chapter down.

Replay part of the disc, press Repeat.

- Press once to replay the CD track or DVD chapter.
- Press twice to replay a CD disc or DVD title.
- Press three times to end the replay.



Scan backward or **forward** through the disc, press and hold Seek reverse or Seek ahead.



Press Play to end the scan.



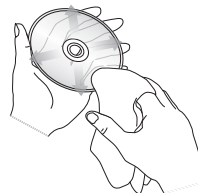
Stop a disc and **open** the disc tray, press Eject on the media center.

Keeping your discs clean

Scratches or dirt on a disc can prevent it from playing properly.

To avoid this problem:

- Handle discs by their edges to prevent fingerprints and scratches. Return them to their cases after use.
- Avoid exposing discs to:
 - chemical products that can cause damage.
 - writing directly on the disc or on a label attached to the disc.
 - direct sunlight, high temperatures, and humidity
- Use a soft, dry and lint-free cloth to clean the disc. Wipe straight out from the center to the edge.






Do not use
a circular
motion




OPERATION

Checking for disc compatibility

If you have trouble playing a disc, check to be sure it is one of the compatible types below.

- Video DVD 
- Video CD 
- DVD-R, DVD-RW
- Audio CD 
- CD-R
- SACDs (CD-compatible content only)
- MP3 CDs:
 - burned in a single closed session
 - in disc format ISO9660
 - with .mp3 as the extension and no other periods in the file name.

Region codes

For any DVD player and DVD disc to work together, the code for the region where they were sold must match. A code symbol is marked clearly on the bottom of your system media center and on the DVD cover (where it may be very small). For example, Region 1 is .


Copy protection

Music and other content may be protected by international and domestic copyright laws and may contain specific restrictions on use and/or reproduction. Please respect the rights of the artists and other copyright holders.

For DVDs: Setting Parental Control

You can password protect some DVDs that are not appropriate for other family members.

Choosing a password

1. Turn on your TV and your 3•2•1® system.
 - Be sure to select the same TV Video Input that you use to watch a DVD.
2. Press the System button on your 3•2•1 remote control.
 - The System menu appears on screen.
3. Press the right arrow button to select the DVD Lock icon .
4. Press ENTER.
5. Use the number buttons to create your four-digit password.

Setting a restriction level

1. Choose a Parental Control Setting from the chart of ratings defined by the Motion Picture Association of America (MPAA).

Ratings supplied by the MPAA

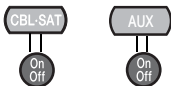
| Parental Control Setting | MPAA Rating | Audience Restriction |
|--------------------------|-------------|--------------------------|
| 8 | | None |
| 7 | NC-17 | Adult audiences |
| 6 | R | Mature audiences |
| 5 | | Mature teenage audiences |
| 4 | PG-13 | Teenage audiences |
| 3 | PG | Mature young audiences |
| 2 | | Most audiences |
| 1 | G | General |

The numbers above the one you select will be restricted.

2. In the System menu, select DVD Lock and enter your password.
3. Use the arrow buttons to reach Lock UnRated Discs and select Yes.
4. Move down to Lock Discs Rated Above and right to the numbers.
5. Press the up or down arrow button to select a number.
Any numbers above this selection will be restricted by password protection.
6. Press ENTER to save this setting and Exit to move out of the System menu.

Playing a cable box or other component

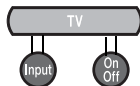
1. Press the button for the source (CBL•SAT or AUX) you want to play.



This turns on the 3•2•1® system to the selected source.

2. Turn on your component and, if it is a video source, turn on the TV.

If the 3•2•1 remote is set to control the component, you can press the source On/Off button on the remote.




3. Choose the proper Video Input on your TV if the source is a video component.

Adjusting for audio delay

While playing a DVD, you may notice that the picture and audio are not in perfect sync. For example, you see a person's lips move after you hear the words.

To make small adjustments to this timing, use the audio delay setting on the 3•2•1 system:


1. Press the Settings button on the 3•2•1 remote control.
The Settings menu appears on screen.
2. Move down to the audio delay icon  and press ENTER.
3. Select an adjustment (1-8) and wait to see if this corrects the problem.
Each selection makes a minute timing adjustment. It may be difficult to notice the change.

Getting digital audio from a source

For an Optical digital audio connection to the media center, the connected component must be recognized by the system.

Currently, the system is set to recognize CBL•SAT as the Optical component.

If the Optical connection is for a different component:

1. Display the 3•2•1® system menu on the TV by pressing System.
2. Move right to the Media Center icon  and press ENTER.
3. Move down to Optical Source and press ENTER.
4. Move up or down to select a component from the list and press ENTER.
5. Press Exit to leave the System menu.

Note: When using your 3•2•1 system with the TV, turn the volume on your TV set all the way down. This prevents an echo effect from two sets of speakers playing.

Choosing other options

The 3•2•1 system provides optional settings and adjustments to meet your specific needs.

For example you can:

- Set a countdown time for the system to turn off automatically.
- Choose another language for text on the media center display and in system menus.
- Adjust the bass or treble audio compensation.
- Change the image format on your TV screen.

Note: Your TV may provide an on-screen menu to make changes to the video image.

For a full list and description of these options, see “Adjustments to the performance” on page 47.

OPERATION

Listening to the radio

Your 3•2•1® system includes an FM and AM radio.

1. On the 3•2•1 remote, press FM•AM.



This turns on the 3•2•1 system and plays the radio station last selected.

2. Press the FM•AM button to switch between FM and AM.

3. Press the Channel up or down buttons to tune from one station to another.



To tune to:

- A preset station, press the Preset number button.
- The next clear station, press a Seek button.

Creating a preset

You can assign a preset number for 20 FM and 20 AM stations. Then, by pressing the preset number, you tune immediately to the particular station:

1. Tune to the station you want to assign to a preset.
2. Choose the number you want to assign to that station.

3. Press and hold the chosen number button:
 - For numbers 1 through 9, press and hold the button.

PRESET:x* SET appears briefly on the media center display.

- For numbers 10 through 20, press the first number, then press and hold the second number.

PRESET:xx* SET appears briefly on the display.

Removing a station from a preset

1. Press the number of the preset.
2. Listen to be sure this is the preset you want to erase.
3. Press and hold zero.

PRESET:xx* ERASED appears briefly on the display.

**x represents the number you select.*

ADJUSTMENTS TO THE PERFORMANCE

Changing system features

If your system operates as you want it to, you may not need any changes.

Some kinds of setup, however, require a change for optimal performance. In most cases, you make a System change just once.

The features that you can change include:

- Audio
- Video
- Media Center
- DVD Lock

Using the DVD Lock feature is described in “Playing a video disc or CD” on page 40.

For details on the other options available, refer to the tables on the pages that follow.

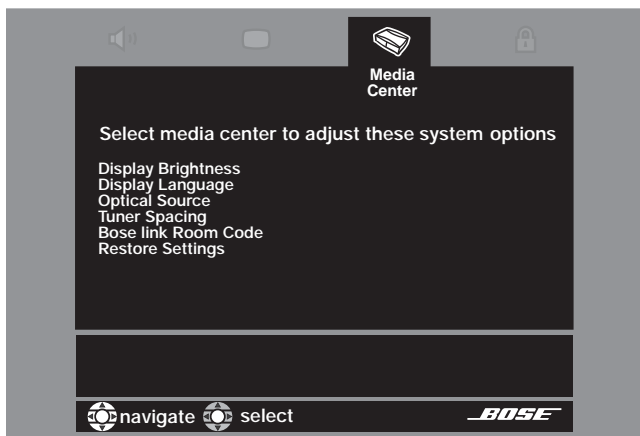
To get to the System menu

The System menu appears on your TV screen only.

1. Turn on your 3•2•1® system.
2. Turn on your TV and select the TV Video Input that you use to watch a DVD.
3. Press the System button on your 3•2•1 remote.
The System menu appears on your TV screen.
4. To get into the menu, move right and select an icon (like Media Center, shown on page 48) for one of the system features.
The list of options appears on the menu screen.

Note: *Entering the System menu pauses a DVD or CD.*

ADJUSTMENTS TO THE PERFORMANCE



Selecting a new option

1. Make sure you see the System menu on your TV screen.
2. Move right to select the system feature you want to change and press ENTER.
3. Press the up and down buttons to move to the option you want.
As explanation for each options appears at the bottom of the menu when you highlight the option by moving up or down.
4. Press ENTER to select the option.
5. Change the option by selecting a new setting (or by pressing number buttons, as needed).
6. Press Exit to leave the System menu.

Language choices

You can select the language you prefer to see on-screen and on the media center display. To make this change, move to the Display Language option in the Media Center feature of the System menu.



Audio options

These options affect the way the system sounds in your home.

| Option | Default Setting (Options) | Description |
|--|--------------------------------|--|
| Bass Compensation | 0 (-14 to +14) | Zero is for standard low-tone performance. – decreases and + increases these low tones. |
| Treble Compensation | 0 (-14 to +14) | Zero is for standard high-tone performance. – decreases and + increases these high tones. |
| Audio Processing | Automatic (User Adjustable) | Keeps Bose® processing as the standard. Allows some processing options (Movie EQ, Range Compression, Mono Decoding) to appear in Settings menus. |
| Input Levels: TV Analog Input Level TV Digital Input Level CBL•SAT Analog Input Level CBL•SAT Digital Input Level AUX Analog Input Level AUX Digital Input Level | Normal (-6, -3, +3, +6) | Decreases or increases the volume level setting for the input of a connected component. This minimizes abrupt volume changes when you switch from DVD or FM•AM audio on the Bose media center to audio from a connected component. Note: To match AM and FM levels, which can vary depending on the program or station, adjusting the volume on your audio component may be preferable. |
| DVD Audio <i>(Only for TVs connected to the media center by HDMI cable.)</i> | Bose 3•2•1 (TV Stereo) | Plays the DVD audio from 3•2•1® media center over the 3•2•1 speakers. Sends two channels of DVD audio by HDMI cable to the TV and plays this sound on the TV speakers as well as on the Bose® speakers. |

ADJUSTMENTS TO THE PERFORMANCE

Video options

These options affect the way the picture looks on your TV.

| Option | Default Setting (Options) | Description |
|--|--------------------------------|--|
| <p>Widescreen TV</p> <p>Note: If your TV is connected using an HDMI cable, you may not see a choice of settings.</p> | <p>Yes (16:9) (No 4:3)</p> | <p>Yes tells the system that widescreen (16:9) is the TV format.</p> <p>No tells the system that 4:3 is the TV format.</p> <p>For a TV connected using a Composite, S-Video, or Component cable, selecting No also makes available the DVD Image option (below).</p> <p>Note: If you are not sure what type of cable is used to connect your TV, check the Video Connector indicator, which is explained on page 51.</p> |
| <p>DVD Image</p> <p>Note: This option is NOT available UNLESS you have selected No in the Widescreen TV option (above) for your TV connected using a Composite, S-Video, or Component cable (not HDMI).</p> | <p>Modified (Original)</p> | <p><u>For a TV connected using an HDMI cable:</u></p> <p>Modified allows the Bose® system to automatically provide the resolution that is preferred for your TV (usually 720 or 1080), so the image fills the screen. You can change this video resolution in the Settings menu.</p> <p>Original tells the Bose® system to keep the image in the original DVD format (in 480 or 576 resolution), regardless of how it fills the screen. No change can be made to this video resolution in the Settings menu.</p> <p>(Some TVs determine automatically how to fill the screen, overriding any choice.)</p> <p><u>For a TV connected using non-HDMI cable:</u></p> <p>Modified allows the Bose system to adjust the images on some <u>widescreen</u> DVDs to fill a 4:3 TV screen. This is done by removing the black bars on top and bottom and by cropping the sides of the image. (Many DVD images, even widescreen, will still appear with black bars on top and bottom.)</p> <p>Original tells the Bose system to keep the image in the original format of the DVD. A <u>widescreen</u> DVD image will have black bars on top and bottom.</p> |

| Option | Default Setting (Options) | Description |
|---|---|--|
| Video Connector <i>(Only an indicator.)</i> | (HDMI) (Composite + S-Video) (Component) | Identifies the type of video connection made on the back panel of the media center. This is not an adjustable setting. |
| Video Black Level <i>(Appears on screen only if the TV connects to the media center using a Composite or S-Video cable.)</i> | Normal (Extended) | Screen black level generally appropriate for most TVs. Darkens the intensity of the black on screen. |
| TV Video Format | NTSC - US (PAL - EUROPE) (MULTISTANDARD) | Correct for NTSC (U.S. standard) monitors. Correct for PAL (European standard) monitors. Only for a TV that supports multiple formats (NTSC and PAL). |
| Progressive Scan <i>(Appears on screen only if the TV connects to the media center using a Component cable. It is not needed with HDMI.)</i> | Off (On) Note: <i>If selecting On distorts your screen, press the remote up arrow to reselect Off.</i> | Screen image repaints in standard style. Screen image repaints in advanced style (if your TV provides this option). Note: <i>With an HDMI connection, you will not see the On option. The HDMI cable automatically senses your TV capabilities and applies progressive scan as appropriate.</i> |

ADJUSTMENTS TO THE PERFORMANCE



Media center options

These options affect general operation of the system.

| Option | Default Setting (Options) | Description |
|---------------------|---|--|
| Display Brightness | 4 (1 to 4) | Media center display shows text at its brightest. Choosing a lower number darkens text on the display. |
| Display Language | English (Dansk, Deutsch, Español, Français, Italiano, Nederlands, Svenska) | On-screen display menus appear in the selected language. |
| Optical Source | CBL•SAT (TV, AUX) | Set for a component connected by Optical cable to the CBL•SAT AUDIO IN on the 3•2•1® media center. Identifies a different component connected by Optical cable to the media center. |
| Tuner Spacing | US (European) | Applies the regional standard for incremental spacing between AM and FM stations. |
| Bose Link Room Code | B (C, D, E, F, G, H, I, J, K, L, M, N, or O) | Links the 3•2•1 system to a unique code so it works with Bose® link as a second room sound source. Bose link expansion is a Lifestyle® system feature. |
| Restore Settings | No (Yes) | Maintains your established changes in the Settings menu. Returns all of your selections in the Settings menu to the original factory settings. |

Choosing new settings

You can use the 3•2•1® Settings menus for quick adjustments while you watch a video or listen to music.

For example, if you want to change the screen resolution for DVDs, you will find that option in the TV Settings menu.

To see these options, enter the Settings menu for the selected source. Symbols and definitions for the options that are offered appear on screen.

Note: *Some of the settings made while you are playing a particular source are temporary. When you change sources or turn off the system, these settings revert to the factory selections.*




To get to the Settings menu




1. Use the 3•2•1 remote to select the audio or video source that you want to change.
2. Press the Settings button.
The Settings menu that affects this source appears on your media center display.
It also appears on screen if your TV is on and you select the proper TV Video Input.
3. Move up or down to the option you want and press ENTER.
4. Move right to select a new setting for that option and press ENTER.
5. Press Exit to leave the Settings menu.

The Settings menu appears as a vertical bar of icons. To familiarize yourself with the icons, see “Settings options” on pages 54-59.







ADJUSTMENTS TO THE PERFORMANCE



Settings options

| | Features | Default Setting (Options) | Effect |
|---|---|---|---|
|  | <p>Audio Delay</p> <p><i>Available only for DVDs and connected video components.</i></p> | <p>0</p> <p>(0, 1, 2, 3, 4, 5, 6, 7, 8)</p> | <p>Each number change adjusts the delay by about 30 milliseconds.</p> <p>The most noticeable mismatch in the video and audio synchronization (caused by the video processing in some TVs), occurs in scenes with people talking.</p> <p>If they appear to finish sentences before their lips stop moving, select a different Audio Delay setting to correct this condition.</p> |
|  | <p>Movie EQ</p> <p><i>Available only if Audio Processing is set to Adjustable in the Audio System menu. (Not available for CD or FM-AM.)</i></p> | <p>Off</p> <p>(On)</p> | <p>Leaves the equalization of the movie soundtrack as originally recorded.</p> <p>Adjusts the equalization of the movie soundtrack to better suit some home theater installations.</p> <p>Note: To turn on Movie EQ, the Audio Processing option in the System menu must be set as User Adjustable.</p> |
|  | <p>Range Compression</p> <p><i>Available only if Audio Processing is set to Adjustable in the Audio System menu. (Not available for CD or FM-AM.)</i></p> | <p>Off</p> <p>(On)</p> | <p>Leaves the volume range of the movie soundtrack as originally recorded.</p> <p>Reduces the volume range of sounds on a movie soundtrack.</p> <p>Late at night or at other quiet times, the startling difference between the quietest and loudest audio passages in a movie can be a problem. Turning this feature On moderates those effects.</p> <p>Note: To turn on Range Compression, the Audio Processing option in the System menu must be set as User Adjustable.</p> |




| | Features | Default Setting (Options) | Effect |
|---|--|--|---|
|  | <p>Mono Decoding</p> <p><i>Available only if Audio Processing is set to Adjustable in the Audio System menu. (Not available on CD or FM-AM.)</i></p> | <p>Off</p> <p>(On)</p> | <p>When one-channel (mono) is the audio input, this mono signal is sent to both speakers.</p> <p>Processes the signal from one-channel (mono) audio input (if it is detected) for right and left channel output.</p> |
|  | <p>Audio 1 + 1</p> <p><i>Available only if a dual mono signal is detected on a video CD or digital broadcast.</i></p> | <p>1</p> <p>(2, Both)</p> | <p>Allows you to decode and play bilingual audio from a VCD or single-channel digital broadcast.</p> <p>When the digital audio content is on two channels, each channel carries a unique mono soundtrack (1 + 1).</p> <p>Changing this setting allows you to hear the audio on mono channel 2, or both mono channels at the same time.</p> |
|  | <p>Video Resolution</p> <p><i>Adjustable only for a TV connected by HDMI AND only if the DVD Image setting in the System menu is Modified.</i></p> | <p>_____ * Default</p> <p>(1080p, 1080i, 720p, 480/576p, 480/576i)</p> | <p>Your 3•2•1® system sets its DVD video resolution to match the default that is communicated to it by the TV. You can experiment with other settings to see which one provides the best picture.</p> <p>HDTVs can accept different resolutions as input, and in some cases the highest number does not result in the best picture.</p> <p>Important note: When you change resolution, your TV screen takes several seconds to make the transition. Allow for this adjustment before pressing other buttons.</p> |

ADJUSTMENTS TO THE PERFORMANCE

| | Features | Default Setting (Options) | Effect |
|---|---|---------------------------|---|
|  | Time <i>(For DVD only.)</i> | _: _ (0:00) | Changing the elapsed time moves to a different point in the DVD. |
|  | Title <i>(For DVD only.)</i> | _ of _ | Changing the first number moves to a different title on the current disc. Some DVDs do not allow direct access to titles. |
|  | Chapter <i>(For DVD only.)</i> | _ | Changing this number moves to a different chapter on the current disc. Some DVDs do not allow direct access to chapters. |
|  | Audio Track <i>(For DVD only.)</i> | Dependent on disc | Gives you a choice of audio tracks on the current disc. |
|  | Subtitle Language <i>(For DVD only.)</i> | Dependent on disc | Gives you a choice of subtitle languages (if several are included on the disc). |
|  | Camera Angle <i>(For DVD only.)</i> | 1 of _ | Gives you a choice of camera angles (if several are included on the disc). |

| | Features | Default Setting (Options) | Effect |
|---|--------------------------------------|---------------------------|---|
|  | A-B Repeat <i>(For DVD only.)</i> | A, B | Repeats a segment of the DVD after the start and end points are defined. To begin: <ol style="list-style-type: none"> 1. Move backward or forward to the point in the DVD where you want the segment to start. 2. Press ENTER. 3. Move to the point where you want it to end. 4. Press ENTER. Repeats until you select this setting option again and press ENTER. |
|  | Track <i>(For CD only.)</i> | __ of __ | Changing this first number moves to a different track on the current disc. |

ADJUSTMENTS TO THE PERFORMANCE

| | Features | Default Setting (Options) | Effect |
|---|---|---------------------------|--|
|  | Sleep Timer | Off (10-90) | Setting countdown minutes causes your 3•2•1® system to turn off when the time reaches 0. The choices, from 10 to 90 minutes, are divided into 10-minute increments. To cancel the timer, select Off. |
|  | Output Mode <i>(For FM only.)</i> | Auto (Mono-Stereo) | Allows you to choose stereo or monaural (mono) audio performance by selecting: <ul style="list-style-type: none"> • Auto – The FM tuner will automatically play in stereo if that is available. Otherwise, it will play in mono (single channel). • Mono – The FM tuner will always play in mono. • Stereo – The FM tuner will always play in stereo if available. Otherwise, it plays mono. When you change the tuner frequency, the setting resets to Auto. |
|  | RDS Info <i>(For FM and only on some systems.)</i> | On (Off) | Displays any station and program information that is available from the Radio Data System. |

Replacing remote batteries

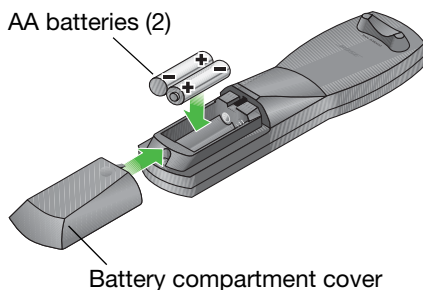
Replace both batteries when the remote control stops operating or its range seems reduced. Alkaline batteries are recommended.

1. Slide open the battery compartment cover on the back of the remote.

2. Remove both batteries.

Be sure to dispose of the batteries according to the regulations in your area.

3. Insert two AA (IEC-R6) 1.5V batteries, or the equivalent. Match the + and – symbols on the batteries with the + and – markings inside the compartment.
4. Slide the battery compartment cover back into place.



Protecting the system

Follow the guidelines below for keeping the system in good working order.

- Do not allow liquids to spill into any openings.
- Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.
- Do not use any sprays near the system.

Cleaning the media center

Use only a soft, dry cloth to clean the outside surfaces of the media center.

Cleaning the speakers

Use a soft, damp cloth. Or use an ammonia-free window cleaner on a soft cloth to maintain the finish.

REFERENCE

Troubleshooting

| System issues | What to do |
|---------------------------------------|---|
| System doesn't turn on | <ul style="list-style-type: none"> • Make sure the Acoustimass® module power cord is inserted securely into the AC (mains) power outlet and into the power connector on the Acoustimass module. • Be sure to press a source button (CD•DVD, CBL•SAT, etc.) on the 3•2•1® remote. • Unplug the power cord for 60 seconds, then plug it in again. This allows the unit to reset itself after a power surge or power interruption. • For a 230-240V system (used typically in Europe), make sure the power switch on the Acoustimass module is turned on (I). • For a dual voltage 3•2•1 system only, make sure the voltage setting is correct for your region. If it is set to 115V, the system may not operate in a 230V region. <p><i>CAUTION: Do not change the voltage switch from 230V to 115V unless you are certain it is appropriate for the power supply in your location.</i></p> |
| No sound | <ul style="list-style-type: none"> • Increase the volume. • Check to see if MUTE is lit on the display. If it is, press the Mute button on the remote control to unmute the sound. • Be sure that you have pressed the correct source button (CD•DVD, CBL•SAT, etc.) on the 3•2•1 remote. • Check the audio connections for the component you want to play. • Connect the FM and AM antennas. • Make sure that the cable between the Acoustimass module and the media center is connected securely. • Check connections between the speakers and the Acoustimass module. • Turn off the media center for 60 seconds, then on again, to restore communication between the media center and the speakers. |
| Sound is distorted | <ul style="list-style-type: none"> • Make sure speaker cables are not damaged and the connections are secure. • Reduce the volume level on the external device playing through the 3•2•1 system speakers. |
| Sound is marred by a loud hum or buzz | <ul style="list-style-type: none"> • Try plugging your system into a different AC outlet. • Check to see if your media center and its audio input cable are within 3 ft (1 m) of any other electronic or electrical device. Some examples are a TV, cable box, VCR, wireless internet router, dimmer switches, blinking lights, or microwaves. • Move the media center farther away and notice if the humming still occurs. |

| System issues | What to do |
|---|---|
| No sound from TV only | <ul style="list-style-type: none"> • If your TV has Variable instead of Fixed audio output, you need to turn off the TV speakers internally. Refer to your TV owner's guide and follow the instructions provided there. |
| Speech and lip movement on screen are not in sync | <ul style="list-style-type: none"> • Adjust the Audio Delay using the Settings menu on screen. For details, refer to "Choosing new settings" on page 53. |
| Radio does not work or has poor reception | <ul style="list-style-type: none"> • Make sure the antennas are connected and positioned as shown in "Installing the FM and AM radio antennas" on page 25. • Adjust the FM antenna position to reduce interference. • Move antennas farther from the media center, TV, or other electronic equipment. • Select another station. You may be in an area of weak signal coverage for some stations. |
| Volume level changes when another sound source is selected | <ul style="list-style-type: none"> • Change the Audio Level for the source input so its volume matches the volume of the radio and DVD in the Bose® system. Refer to "Audio options" on page 49. |
| Remote issues | What to do |
| 3•2•1® remote does not control your TV, CBL•SAT, or AUX component | <ul style="list-style-type: none"> • Make sure that the remote is set to control the component. Refer to "Setting the remote for your TV" on page 31. • Make sure that the front of the component is not obstructed. • Reset the remote using a different device code for the component you want to control. Refer to "Device codes" located at the back of the book. There may be several codes that can turn the component on and off, but only one that provides further control (channel changing, for example). |
| 3•2•1 remote behaves erratically or does not work | <ul style="list-style-type: none"> • Aim the remote at the front of the media center. • Make sure the battery polarity (+ and -) matches the polarity marked in the battery compartment. • Install new batteries. Refer to "Replacing remote batteries" on page 59. |

REFERENCE

| Video issues | What to do |
|---|---|
| Sound, but no picture | <ul style="list-style-type: none"> • Make sure the TV is on. • Make sure the TV is set to the correct Video Input to see the video from DVDs on the Bose® system. • Make sure a DVD is in the disc tray. • If the TV is connected to the media center using the HDMI cable: <ul style="list-style-type: none"> – Switch from one Video Input to another and then back to the original input. – Turn everything off, then: <ul style="list-style-type: none"> A. Turn on the TV and set the TV Video Input for the Bose system video. B. Turn on the 3•2•1® system and press DVD. – Turn off both the TV and the 3•2•1 system and then: <ul style="list-style-type: none"> A. Unplug the HDMI cable from both ends. B. Disconnect the power cables from both your TV and the 3•2•1 Acoustimass® module. C. Re-connect power to the television and to the Acoustimass module. D. When the 3•2•1 startup message disappears from the display, re-connect the HDMI cable. E. Turn on the TV first, then turn on the 3•2•1 system. – Disconnect the HDMI cable that connects the TV to the 3•2•1 media center. Reconnect the two using a Component cable, an S-Video cable, or the Composite cable provided with the system. |
| Incorrect picture for the selected source | <ul style="list-style-type: none"> • Make sure the TV is set to the correct Video Input. |
| Picture is black and white, flickers, gets dark, or rolls | <ul style="list-style-type: none"> • Check the video cable connections. • If the media center is connected to the TV using a Component cable, make sure the colored cable plugs (red, green, and blue) match the connector colors on the media center and on the TV. • Check the Video Format setting (NTSC or PAL) and change it. Refer to “Video options” on page 50. |
| Picture is not clear or is unstable | <ul style="list-style-type: none"> • Use the Settings menu to lower the output resolution of the system. Your 3•2•1 system sets its DVD video resolution to match the default that is communicated to it by the TV. You can experiment with other settings to see which one provides the best picture. <p>HDTVs can accept different resolutions as input, and in some cases the highest number does not result in the best picture.</p> |

| Disc issues | What to do |
|--|---|
| DVD or CD does not play <i>Note: If you are using the HDMI cable between the TV and media center, there are other possible solutions in "Sound, but no picture" on the previous page.</i> | <ul style="list-style-type: none"> • Make sure the Acoustimass® module power cord is inserted securely into the AC (mains) power outlet and into the power connector on the Acoustimass module. • Check to see if the Play symbol in the display is lit. • After pressing the CD•DVD button, wait a few seconds and press Play. • Make sure the disc is properly inserted (label-side up). • Eject the disc and try loading it again. • Clean the disc to remove fingerprints, dust, or dirt. Refer to "Keeping your discs clean" on page 41. • Try another disc. Some discs are defective and will not play. • Make sure the disc is compatible with the media center disc player. Also make sure the region codes match. Refer to "Checking for disc compatibility" on page 42. |
| Disc won't eject | <ul style="list-style-type: none"> • Follow these steps: <ol style="list-style-type: none"> 1. Turn off the unit. 2. Unplug the Acoustimass module power cord from the outlet for 60 seconds, then reconnect it. This allows the unit to reset itself. 3. Before powering on, press and hold Eject on the media center. |
| Lock DVD password lost | <ul style="list-style-type: none"> • Enter the password 2673 to gain entry to the Lock DVD screen. |

For customer service

For additional help in solving problems, contact Bose® Customer Service. Refer to the address sheet included in the carton.

Limited warranty

This system is covered by a transferable limited warranty. Details of the limited warranty are provided on the *Product Registration Card* that came with your system.

REFERENCE

Technical information

Power rating

USA/Canada: 120V~ 60Hz 300W

International: 220-240V~ 50/60Hz 300W

Dual voltage: 115/230V~ 50/60Hz 300W

Antennas

FM 75Ω – external FM antenna

AM – external AM antenna

Maximum ambient temperature

104°F (40°C)

Dimensions

Media center: 3¼"H x 13¾"W x 10"D
(8.3 cm x 34.9 cm x 25.4 cm)

Remote control: 1⅞"H x 2½"W x 9"D
(3.0 cm x 6.5 cm x 22.9 cm)

Speakers: 2½"H x 5½"W x 4"D
(6.4 cm x 14 cm x 10.5 cm)

Acoustimass® module: 14½"H x 8¾"W x 19⅞"D
(36.7 cm x 22.2 cm x 48.5 cm)

Weights

Media center: 6.7 lb (3.0 kg)

Speakers: 1 lb (.45 kg) each

Acoustimass module: 23.3 lb (10.6 kg)

Finish

Media center: polymer

Speakers: polymer

Acoustimass module: polymer

4:3 – See “Aspect ratio.”

16:9 – See “Aspect ratio.”

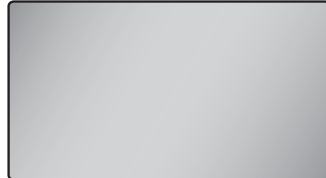
A Analog audio – The sounds that we hear with our ears, unlike digital audio that is encoded as bits of information.

Aspect ratio – An expression for the width of the picture relative to the height. For example, if the aspect ratio is 4:3 (considered a normal screen), the shape of that picture is 4 units wide by 3 units high. The standard TV aspect ratios are 4:3 and 16:9 (called widescreen).

4:3 screen



16:9 screen



C CD – The abbreviation for a compact disc that stores digitally encoded music that is read by the laser beam in a compact disc player. This provides high-quality playback.

Chapter – A main division of contents in a DVD title.

Coaxial cable – Can carry digital audio signals between a source device and the 3•2•1® system.

Component video – Also called YPbPr for its three-part video signals that include luminance and two color signals. Component video requires the use of a Component cable. This provides considerably better resolution than is possible from either Composite or S-Video signals.

Composite video – The simplest of video signals, which combines black and white with color information. Its low-resolution signal is compatible with the broadest range of televisions and other video components and requires a simple RCA video cable.

GLOSSARY

D **Digital audio** – Audio in digital form, which is encoded as bits of information.

Dolby Digital – A means of encoding multi-channel audio, developed by Dolby Laboratories and accepted as an international standard.

 – The logo representing Dolby Digital.

DTS – An abbreviation for Digital Theater Systems. DTS encoding provides a type of multi-channel surround sound format used on certain CDs and many DVDs.

 – The logo representing DTS.

DVD – An abbreviation most commonly known to mean digital video disc or digital versatile disc. A DVD looks like a CD but contains high-quality video and multi-channel audio for movies.

DVD-R, DVD-RW – Abbreviations for Recordable (R) and ReWriteable (RW) Digital Video (or Versatile) Disc (DVD). Data can be added to a DVD-R once only, and to a DVD-RW more than once.

DVD-ROM – The abbreviation for Read Only Memory (ROM) on a Digital Video (or Versatile) Disc (DVD), which allows no data to be added.

DVD video – A standard for storing and reproducing audio and video on DVD-ROM discs, based on MPEG video, Dolby Digital audio, and other proprietary data formats.

DVR – An abbreviation for Digital Video Recording (otherwise known as PVR for Personal Video Recording). With a hard drive, an electronic program guide, and internal processing, a DVR simplifies recording and playback of programs.

H HDCP – An abbreviation for High-bandwidth Digital Content Protection. HDCP is a form of Digital Rights Management licensed by Digital Content Protection, LLC, to control digital audio and video content as it travels across Digital Visual Interface (DVI) or High-Definition Multimedia Interface (HDMI) connections. (It prevents unauthorized copying of programs.)

HDMI – An abbreviation for High-Definition Multimedia Interface. HDMI is a de-facto standard interface that delivers clear, all-digital audio and video via a single cable.

HDTV – An abbreviation for High-Definition TV, a digital television format that delivers sharper picture quality with more lines of resolution. HDTV offers a much better picture quality than standard television.

I IR – An abbreviation for infrared. Pertains to the type of remote that sends/receives commands on an infrared light beam.

L Letterbox – A video format that has an aspect ratio wider than 4:3 (refer to Aspect ratio) and is shown with black bars above and below the picture.

M MP3 – This is a compressed audio format (MPEG-1 Layer III) that allows the recording of many hours of music on a single CD.

MPEG – An abbreviation for Moving Picture Experts Group, the committee of experts from the audio, video, and computer industries involved in setting standards for compression of moving images.

N NTSC – An abbreviation for National Television System Committee and the label for its video format standard used for televisions in the U.S. and other countries.

O Optical cable – Carries digital audio via optical fiber between a source device and your 3•2•1® system.

P PAL – An acronym for the Phase Alternate Line video format used extensively in Western Europe.

PCM – An abbreviation for Pulse Code Modulation. A common form of digital audio signal.

Progressive scan – A video format that displays all lines of the picture frame in a single pass and refreshes the TV image 30 times per second. Not compatible with all video displays.

PVR – Refer to DVR.

R RDS – A system that displays radio broadcast station and programming information. This feature is available on European systems only.

Resolution – The sharpness of a video image, signal, or display, generally described either in terms of lines of resolution or pixels.

GLOSSARY

S SCART – A type of connector commonly found on consumer electronics products manufactured for use in Western Europe.

Screen ratio – See Aspect ratio.

Source – Any device that provides audio or video signals for use with the 3•2•1® system. The AUDIO OUT from such a device connects to the AUDIO IN on the media center

S-Video – A video signal that separates the black and white from the color information. S-Video provides higher resolution than Composite video, but not as high as Component video. This type of connection requires use of an S-Video cable.

T Teletext – An information retrieval service provided by television broadcast companies in Europe and some other countries, not including the U.S.

Title – A main component of contents on a DVD. There can be several titles on a DVD, one of which may be a movie.

V Video CD – A compact disc (CD) that contains video.

W Widescreen – A TV having an aspect ratio of 16:9 with a picture shape that is 16 units wide by 9 units high. (Refer to Aspect ratio.)

Y YPbPr – See Component video.

©2008 Bose Corporation. No part of this work may be reproduced, modified, distributed, or otherwise used without prior written permission.

The distinctive design of the 3•2•1® media center is also a registered trademark of Bose Corporation.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories. All rights reserved.

This product contains one or more programs protected under international and U.S. copyright laws as unpublished works. They are confidential and proprietary to Dolby Laboratories. Their reproduction or disclosure, in whole or in part, or the production of derivative works therefrom without the express permission of Dolby Laboratories is prohibited. ©1992-1996 by Dolby Laboratories, Inc. All rights reserved.

MPEG Layer-3 audio compression technology licensed by Fraunhofer IIS and THOMSON multimedia.



Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents

issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. ©1996-2007 DTS, Inc. All Rights Reserved.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 or 625 progressive scan picture problems, it is recommended that the user switch the connection to the "standard definition" output. If there are ques-

tions regarding your TV set compatibility with this model 525p and 625p DVD player, please contact our customer service center.

Designed with UEI Technology™ Under License from Universal Electronics Inc. ©UEI 2000-2002.

This product incorporates copyright protected technology and other intellectual property rights owned by Cirrus Logic, Inc. and subject to the copyright protection of the U.S. as well as other licensing restrictions and protections. Use of this copyright protected technology is limited solely to use with the Cirrus Logic integrated circuits incorporated in this product. Reverse engineering or disassembly is prohibited.

The Simplay™ logo and the 'Simplay™,' and 'Simplay Labs™,' trademarks are owned by Silicon Images, Inc. and are used under license from Silicon Images, Inc. and/or Simplay Labs, LLC.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

DEVICE CODES

TV **A-2**

CBL **A-15**
Cable box

SAT **A-16**
Satellite receiver

CD/DVD **A-21**

DVD **A-21**

VCR **A-26**

A-ACC **A-32**
Audio accessory

V-ACC **A-32**
Video accessory

R-ACC **A-32**
Audio receiver

TV

| | | | | | | | |
|-------------------|--|-----------------|--|-------------------|--|--------------------|--|
| 888 | 0264, 0412 | Aiwa..... | 0264, 0032, 0701, 1180, 1904, 1911, 1916 | Amplivision | 0370, 0217 | ART | 1037 |
| A-Mark | 0047, 0054, 0003, 0009, 0020, 0032, 0039, 0165 | Akai..... | 0000, 0060, 0812, 0702, 0178, 0030, 0145, 0556, 0037, 0548, 0714, 0606, 0361, 0264, 0218, 0433, 0696, 0729, 0745, 0753, 1935, 0826, 1259, 1537, 1675, 1676, 1903, 0672, 0648, 0602, 0480, 0473, 0412, 0371, 0217, 0208, 0163, 0151, 0056, 0038, 0035, 0009 | Ampro | 0751 | Arthur Martin | 0163 |
| A.R. Systems ... | 0556, 0037, 0455, 0352, 0374 | Akashi | 0009, 0860 | Amstrad | 0000, 0171, 0037, 1037, 0264, 0218, 0433, 0163, 0039, 0177, 0033, 0011, 0362, 0371, 0412, 0648, 0009, 1982 | ASA | 0070, 0105 |
| Abex..... | 0032 | Akiba | 0037, 0218, 0455, 0282 | Amtron | 0000, 0180, 0019 | Asberg | 0037 |
| Accent | 0037, 0009 | Akira | 0418 | Anam | 0250, 0180, 0037, 0003, 0009, 0628, 0700 | Asora | 0009 |
| Accuscan | 0047, 0018, 0135 | Akito | 0037 | Anam National . | 0250, 0037, 0650, 0055 | Astar | 1531, 1548 |
| Acec..... | 0012 | Akura | 0171, 0037, 0714, 0668, 1037, 0264, 0218, 0009, 0163, 0282, 0412, 1498, 1556, 1982 | Andersson | 1149, 1163 | Astra | 0037 |
| Acer..... | 1339 | Alaron | 0170, 0179 | Anglo | 0264, 0009 | Asuka | 0264, 0218, 0217, 0282 |
| Acoustic Research | 1269 | Alba | 0037, 0714, 0668, 1037, 0487, 0370, 0218, 0036, 1935, 0474, 0443, 0418, 0371, 0163, 0038, 0032, 0009 | Anhua | 0051 | ATD..... | 0698 |
| Action | 0030, 0650, 0003, 0019, 0052, 0185 | Alfide | 0672 | Anitech..... | 0037, 0264, 0009, 0282, 0474 | Atlantic | 0037 |
| Acura | 0009 | All-Tel..... | 0865, 1269 | Ansonic..... | 0037, 0668, 0370, 0009, 0012, 0163, 0374, 0411 | Atori | 0009 |
| Addison..... | 0653, 0108, 0092, 1150 | Alleron | 0030, 0170 | AOC | 0451, 0093, 0180, 0060, 0178, 0030, 0108, 1365, 1150, 1089, 0628, 0474, 0185, 0179, 0157, 0092, 0052, 0039, 0038, 0032, 0019, 0018, 0009, 0003 | Auchan | 0163 |
| ADL | 1217 | Allorgana | 0217 | Aolimpika | 0264, 0412 | Audinac | 0180 |
| Admiral..... | 0047, 0054, 0017, 0051, 0093, 0463, 0180, 0264, 0016, 0018, 0019, 0163, 0165, 0179, 0418 | Ambassador | 0150, 0177 | Apex Digital..... | 0156, 0748, 0765, 0185, 0767, 0879, 0890, 1217, 1943 | Audio-Technica | 0019 |
| Advantz | 0282 | American Action | 0180 | Apollo | 0473 | Audiosonic | 0037, 0714, 0486, 0264, 0370, 0218, 0009, 0109, 0217, 0374, 0820, 1308 |
| Advent | 0761, 0783, 0815, 0817, 0842, 1933 | American High.. | 0000, 0060 | AR | 0556, 0352 | Audioton..... | 0486, 0264, 0370, 0217 |
| Adventura | 0046 | | | Arc En Ciel..... | 0109 | Audiovox | 1564, 0451, 0180, 0003, 0092, 0179, 0623, 0802, 0875, 1937 |
| Adventuri | 0000 | | | Arcam | 0217 | Aumark | 0060 |
| Adyson | 0032, 0217 | | | Archer | 0003 | Autovox..... | 0217, 0247, 0544 |
| AEG | 1163, 1556 | | | Ardem | 0037, 0714 | Aventura | 0171 |
| Agashi | 0264, 0217 | | | Aristocrat | 0163 | AVP | 0000 |
| Agna..... | 0150 | | | Aristona..... | 0556, 0037, 0012 | Awa | 0451, 0606, 0264, 0036, 0108, 0009, 0011, 0157, 0217, 0374, 1376 |
| Aiko..... | 0037, 0361, 0264, 0433, 0009, 0035, 0092, 0217, 0371 | | | | | Axion | 1937 |
| Aim..... | 0706, 0037, 0455, 0753 | | | | | Axxent | 0009 |
| | | | | | | Axxon | 0714 |
| | | | | | | Baihe | 0264, 0009, 0412 |
| | | | | | | Baile | 0009, 0374, 0661 |

| | | | | | | | |
|-------------------|--|------------------|---|------------------|--|------------------|---|
| Baird | 0037, 0109, 0179, 0208, 0217, 0343, 1196 | Black Diamond . | 1909, 1037, 0614, 0753, 0820, 1163 | | 0355, 0335, 0282, 0217, 0208, 0163, 0009 | Changfei | 0009, 0374, 0817 |
| Bang & Olufsen | 0565, 0619, 1620 | Black Star | 0247 | | | Changfeng | 0264, 0412, 0696, 0753, 0817 |
| Baohuashi | 0264, 0412 | Blackway | 0218, 0282 | Byd:sign | 1309, 1311 | Changhai | 0009, 0817 |
| Baosheng | 0009, 0817 | Blaupunkt | 0195, 0036, 0455, 0170, 0200, 0327, 0535, 0554 | C-Tech | 0891, 0896 | Changhong | 0156, 0765, 0264, 0508, 0009, 0767, 0783, 0817, 0820, 1156 |
| Barco | 0556, 0163 | Blue Sky | 0556, 0037, 0714, 0668, 1037, 0487, 0218, 0455, 0282, 0499, 1254, 1314, 1363, 1916 | Caihong | 0009, 0817 | Chengdu | 0009, 0817 |
| Basic Line | 0556, 0037, 0668, 1037, 0218, 0455, 0009, 0163, 0217, 0282, 0339, 0374, 1163 | Blue Star | 0282 | Cailing | 0748 | Ching Tai | 0003, 0009, 0092, 0179, 0474 |
| Bastide | 0217 | Bondstec | 0247 | Caishi | 0891 | Chun Yun | 0000, 0180, 0003, 0009, 0033, 0092, 0179, 0474, 0700, 0843, 1150 |
| Baur | 0037, 0195, 0361, 0455, 0146, 0512, 0535, 0544, 0554 | Boots | 0009, 0217 | Candle | 0030, 0039, 0046, 0056, 0186 | Chunfeng | 0264, 0009 |
| Baycrest | 0032, 0046, 0186 | Boxlight | 0893 | Canton | 0218 | Chung Hsin | 0180, 0053, 0036, 0108, 0033, 0474, 1150 |
| Baysonic | 0236, 0463, 0180 | BPL | 0037, 0208, 0282, 0896 | Capehart | 0017, 0178, 0030, 0036, 0003, 0019, 0032, 0046, 00052, 0092 | Chungfeng | 0412 |
| Bazin | 0217 | Bradford | 0180 | Capetronic | 0030, 0003 | Chunsun | 0009, 0817 |
| Beaumarck | 0017, 0178, 0030, 0019, 0179 | Brandt | 0625, 0714, 0560, 0109, 0287, 0335 | Capsonic | 0264 | Cimline | 0218, 0009 |
| Beijing | 0812, 0264, 0226, 0009, 0208, 0374, 0412, 0661, 0817 | Brick | 0039 | Carad | 0668, 1037, 0610 | Cinema | 0672 |
| Beko | 0037, 0714, 0195, 1037, 0486, 0606, 0370, 0418, 0808 | Brinkmann | 0037, 0668, 0486, 0418, 0519 | Carena | 0037, 0455 | Cineral | 0451, 0092 |
| Belcor | 0030, 0019 | Briovega | 0037, 0362 | Carnivale | 0030 | Cinex | 0648, 1556 |
| Bell & Howell ... | 0054, 0017, 0154, 0093, 0016, 0179 | Britannia | 0217 | Carrefour | 0037, 0036, 0070 | Citek | 0047, 0032 |
| Belson | 0698 | Brockwood | 0178, 0030, 0019, 0056 | Carver | 0054, 0170 | Citizen | 0054, 0000, 0451, 0463, 0180, 0060, 0030, 0171, 1935, 1928, 0535, 0003, 0016, 0282, 0280, 0186, 0019, 0092, 0020, 0056, 0046, 0039, 0035, 0032 |
| Belstar | 1037 | Broksonic | 0236, 0463, 0180, 0003, 0039, 0177, 1911, 1929, 1935, 1938 | Cascade | 0037, 0009 | City | 0009 |
| BenQ | 1032, 1315, 1562, 1756 | Brother | 0264 | Casio | 0037 | Civet | 0185 |
| Beon | 0037, 0218, 0032, 0039, 0163, 0418 | BSR | 0163 | Cathay | 0037, 0218, 0032, 0474 | Clairtone | 0185 |
| Berthen | 0668 | BTC | 0218 | CCE | 0037, 0217 | Clarion | 0180 |
| Best | 0370 | Bush | 0556, 0037, 0714, 0668, 1037, 0698, 0487, 0361, 0264, 0218, 0036, 1259, 1556, 1900, 0661, 0660, 1954, 0614, 0519, 0374, 0371, | Celebrity | 0000 | Clarivox | 0037, 0070, 0418 |
| Bestar | 0037, 0370, 0374 | | | Celera | 0765 | Classic | 0030, 0019, 0056, 0092, 0499 |
| Bestar-Daewoo | 0374 | | | Celestial | 0767, 0820 | | |
| Binatone | 0217 | | | Centrex | 0706, 0780, 0826, 0891 | | |
| | | | | Centrum | 1037 | | |
| | | | | Centurion | 0037 | | |
| | | | | Century | 0247 | | |
| | | | | CGE | 0370, 0074, 0163, 0247, 0418 | | |
| | | | | Changcheng ... | 0051, 0264, 0009, 0374, 0412, 0661, 0817 | | |

| | | | | | | | |
|-----------------|---|-------------------|--|---------------------------------------|--|-------------------|--|
| Clatronic | 0037, 0714, 0264, 0370, 0218, 0009, 0217, 0247, 0371 | Curtis Mathes ... | 0047, 0054, 0154, 0000, 0051, 0451, 0093, 0180, 0060, 0702, 0178, 0030, 0145, 0166, 0037, 0179, 0466, 1147, 1347, 1919, 0056, 0044, 0039, 0038, 0035, 0032, 0019, 0018, 0016 | 0019, 0032, 0039, 0056, 0092, 0374 | Dream Vision | 1704 | |
| Clayton..... | 1037 | CXC | 0180 | Dayu..... | 0374, 0661 | Drean | 0037 |
| CMS Hightec.... | 0217 | Cybertron | 0218 | De Graaf..... | 0548, 0044, 0163, 0208 | DSE | 0698, 0820, 1556 |
| Colortyme | 0047, 0054, 0017, 0060, 0178, 0030, 0018, 0019, 0032 | Cytron | 1326 | DEC..... | 0891 | DTS | 0009 |
| Colt | 0019 | Cytronix | 1298 | Decca | 0037, 0033, 0217 | Dual | 0037, 1037, 1137, 0217, 0343, 0352, 0394, 0519, 0544 |
| Commercial Sols | 0047, 1447 | D-Vision | 0556, 0037, 1982 | Degraff | 0163, 0208 | Dual Tec | 0217 |
| Concerto | 0056 | Daenyx | 0180, 0179, 0672 | Deitron | 0374 | Dumont | 0017, 0180, 0178, 0016, 0019, 0032, 0070, 0217 |
| Concorde | 0009 | Daewoo | 0154, 0451, 0180, 0178, 0030, 1661, 0556, 0037, 0634, 1909, 0264, 0218, 0036, 0108, 1928, 0661, 0672, 0700, 1902, 0860, 0865, 1756, 1755, 0880, 1150, 1307, 1598, 0003, 0009, 0019, 0020, 0032, 0039, 0056, 0092, 0109, 0170, 0217, 0374, 0474, 0499, 0623, 0627, 0628 | Dell..... | 1080, 1178, 1264 | Durabrand | 0463, 0180, 0178, 0171, 0003, 1034, 1463 |
| Condor | 0037, 0264, 0370, 0009, 0247, 0282, 0411, 0418 | Dainichi..... | 0218 | Delphi | 0829 | Dux | 0037, 0012 |
| Conia | 0754, 0820, 1498 | Dansai | 0037, 0036, 0009, 0032, 0035, 0208, 0217 | Delta | 1369 | DVX | 0891 |
| Conic | 0178, 0032 | Dansette | 0412 | Denko | 0264 | Dwin | 0093, 0720, 0774 |
| Conrac | 0808 | Dantax | 0714, 0486, 0370 | Denon | 0145, 0038, 0055, 0511, 0576 | Dynatech | 0217 |
| Conrowa..... | 0156, 0145, 0698, 0264, 0009, 0412, 0696, 0753, 1156 | Datsura..... | 0208 | Denstar | 0628 | Dynatron..... | 0037, 0012 |
| Contec | 0180, 0037, 0036, 0009, 0157, 0185 | Dawa | 0037, 0009 | Denver | 0037, 0587, 1189 | Easy Living | 1248 |
| Continental Ed. | 0487, 0109, 0287 | Daytek | 0672, 1376 | Desmet | 0037, 0009 | Eaton | 0060 |
| Cosmel | 0037, 0009 | Dayton | 0009, 0092 | Dewo..... | 0628 | Ecco | 0773 |
| Craig | 0180, 0171, 0179, 0282 | Daytron..... | 0180, 0178, 0030, 0037, 0036, 0009, | Diamant | 0037 | ECE | 0037 |
| Crosley | 0054, 0000, 0180, 0030, 0171, 0370, 0074, 0096, 00163, 0187, 0247 | DL | 0587, 0780, 0872, 0891 | Diamond | 0706, 0698, 0009, 0371, 0672, 0820, 0825, 0860, 0896 | Edison-Minerva | 0487 |
| Crown | 0093, 0180, 0053, 0037, 0714, 1037, 0486, 0487, 0606, 0712, 0370, 0412, 0418, 0339, 0208, 0672, 00056, 0039, 0009 | Domeos | 0668 | Dick Smith Elec. | 0698, 1556 | Elbe | 0037, 0610, 0218, 0217, 0362, 0411 |
| Crown Mustang | 0672 | Domland | 0394 | Digatron | 0037 | Elcit | 0163, 0247 |
| CS Electronics | 0218, 0247 | Dongda | 0009 | Digiline | 0037, 0668, 0105 | Electroband..... | 0000, 0185 |
| CTC..... | 0247 | Donghai | 0009 | Digital Life..... | 0780, 0872, 0891 | Electrograph.... | 1755 |
| CTX | 1756 | | | Digitex..... | 0820 | Electrohome..... | 0154, 0000, 0463, 0150, 0178, 0030, 0019, 0032, 0039, 0056, 0151, 0185, 0381 |

| | | | | | | | |
|-----------------|--|-----------------|--|-------------------|---|-------------------|--|
| Elin | 0037, 0548, 0361, 0009 | Feilu | 0009, 0817 | Fujimaro | 0865, 1498 | General Tech. ... | 0009 |
| Elite | 0037, 0218 | Feiyue | 0264, 0412 | Fujitsu | 0009, 0179, 0186, 0217, 0352, 0683, 0809, 0853, 1181 | Genesis | 0037, 0009 |
| Elta | 0264, 0009, 0474 | Fenner | 0009, 0817 | Fujitsu General | 0009, 0186, 0217, 0683 | Genexxa | 0037, 0218, 0009, 0163, 0412 |
| Emco | 0247 | Fer0 | 0009, 0374 | Fujitsu Siemens | 0808, 0809, 1163, 1298 | Gericom..... | 0808, 0865, 0880, 1217, 1298 |
| Emerald..... | 0178, 0177 | Ferguson..... | 0053, 0037, 0625, 0548, 0560, 0195, 1037, 0003, 0109, 0287, 0335, 0343, 0443, 1935 | Funai | 0000, 0180, 0171, 0668, 0264, 0039, 0179, 0342, 1271, 1904 | Giant | 0009, 0217 |
| Emerson..... | 0047, 0017, 0154, 0451, 0236, 0463, 0180, 0150, 0178, 0171, 0037, 0714, 0668, 0195, 1909, 0486, 0361, 0370, 0036, 0282, 0371, 0623, 1394, 1911, 1928, 1929, 0280, 0247, 0185, 0179, 0177, 0170, 0146, 0135, 0111, 0070, 0044, 0039, 0038, 0032, 0019, 0012 | Fidelity | 0171, 0037, 0361, 0264, 0163, 0217, 0371, 0412, 0423, 0474, 0512, 0544 | Furi..... | 0145, 0264, 0412, 0817 | Gibraltar | 0017, 0000, 0030, 0019 |
| Emperor | 0282 | Filsai | 0217 | Furichi | 0860 | Gintai | 0474, 1150 |
| Envision..... | 0030, 0019, 0032, 0039, 0813, 1365 | Finlandia | 0548, 0361, 0105, 0163, 0208, 0346 | Futronic | 0264, 0860 | Go Video..... | 0060, 0886 |
| Enzer | 0753, 0860 | Finlux | 0556, 0037, 0714, 0070, 0105, 0163, 0179, 0217, 0346, 0411, 0473, 0480, 0492, 0808, 1556 | Futuretech..... | 0180 | Go Vision | 1937 |
| Epson | 0833, 0840, 1290, 1322, 1122 | Firstar | 0236, 0009, 0033 | Galaxi | 0037 | Goldfunk..... | 0668 |
| Erres | 0037, 0012 | Firstline | 0556, 0037, 0714, 0668, 1037, 0361, 0009, 0208, 0217, 0247, 0374, 0411, 0544, 0808, 1363 | Galaxis | 0037, 0370 | GoldStar | 0047, 0054, 0154, 0178, 0030, 0037, 0714, 0606, 0361, 0036, 0455, 0247, 0474, 1150, 1154, 1378, 1926, 0217, 0163, 0109, 0056, 0044, 0039, 0032, 0019, 0018, 0009 |
| ESA | 0812, 0171 | Fisher | 0047, 0054, 0154, 0000, 0361, 0370, 0036, 0157, 0159, 0208, 0217, 0544 | Ganxin | 0817 | Gooding..... | 0487 |
| ESC | 0037, 0217, 0474 | Flint | 0037, 0610, 0264, 0218, 0455 | Gateway..... | 1755, 1756 | Goodmans..... | 1163, 0000, 0556, 0037, 0625, 0714, 0560, 0668, 0634, 1909, 1037, 0487, 0264, 0218, 0036, 0587, 0009, 1900, 1376, 1308, 1259, 0335, 0880, 0808, 0011, 0032, 0661, 0035, 0343, 0179, 0217, 0499, 0360, 0480, 0374, 0371 |
| Ether | 0030, 0003, 0009 | Force | 1149 | GBC | 0218, 0009, 0163, 0374 | Gooding..... | 0487 |
| Etron | 0009, 0163, 0820 | Formenti | 0037, 0163 | GE..... | 0047, 0000, 0051, 0451, 0093, 0180, 0060, 0178, 0030, 1447, 1454, 0625, 0560, 1922, 1919, 1917, 11347, 1147, 0018, 0335, 0282, 0135, 0021, 0092, 0055, 0052, 0027, 0046, 0044, 0038, 0035 | Goodmans..... | 1163, 0000, 0556, 0037, 0625, 0714, 0560, 0668, 0634, 1909, 1037, 0487, 0264, 0218, 0036, 0587, 0009, 1900, 1376, 1308, 1259, 0335, 0880, 0808, 0011, 0032, 0661, 0035, 0343, 0179, 0217, 0499, 0360, 0480, 0374, 0371 |
| Eurofeel..... | 0264, 0217 | Fortress | 0093 | GEC | 0037, 0361, 0163, 0217 | Gorenje..... | 0370 |
| Euroman..... | 0037, 0264, 0370, 0217 | Fraba | 0037, 0370 | Geloso | 0009, 0163, 0247, 0374 | GPM | 0218 |
| Europa | 0037 | Friac | 0037, 0610, 0370, 0009, 0499 | Gemini | 0047 | GPX | 0179 |
| Europhon..... | 0037, 0109, 0217 | Frontech | 0264, 0009, 0163, 0217, 0247, 0474 | General | 0109, 0186, 0287 | Gradiente | 0053, 0037, 0056, 0170 |
| Evesham | 1248 | | | General Elec. ... | 0047, 0021, 0027, 0055 | Graetz | 0714, 0487, 0361, 0163, 0339, 0371, 1163 |
| Evolution | 1756 | | | | | | |
| Expert | 0163 | | | | | | |
| Exquisit | 0037, 0247 | | | | | | |
| Feilang..... | 0009 | | | | | | |

| | | | | | | | | | |
|-----------------|--|------------------|--|--------------------|---|------------------|---|-----------------|------|
| Gran Prix | 0179, 0648 | | 0394, 0499, 0519, 0544, 0661, 0808 | | 0009, 0208, 0696, 0753, 0780, 0860, 1156, 1208, 1314, | Huanghe | 0009, 0817 | | |
| Granada | 0037, 0548, 0560, 0036, 0108, 0226, 0012, 0032, 0146, 0163, 0208, 0217, 0339, 0343, 0473 | Hantarex..... | 0037, 0009, 0829, 0865 | Hitachi | 1445, 0047, 0054, 0017, 0000, 0156, 0051, 0150, 0178, 0030, 1145, 0145, 1256, 0037, 0548, 0634, 1037, 1137, 0036, 0108, 0225, 0508, 0719, 0744, 0578, 0576, 0499, 0492, 0481, 0480, 0797, 0877, 1045, 1149, 1150, 1156, 1225, 1245, 1378, 1481, 1576, 1904, 0009, 0016, 0018, 0019, 0027, 0032, 0035, 0038, 0039, 0044, 0055, 0056, 0092, 0105, 0109, 0151, 0157, 0163, 0165, 0179, 0185, 0186, 0217, 0282, 0343, 0381, 0473, 0474 | | 0150, 0108, 0860 | Huanglong | 0009 |
| Grandin | 0037, 0714, 0668, 1037, 0610, 0218, 0455, 0009, 0163, 0282, 0374, 0865, 0880 | Hantor | 0037 | | | Huangshan | 0264, 0009, 0412, 0817 | | |
| Gronic | 0217 | Harley Davidson | 0000, 0180, 0060, 0178, 0030, 0019, 0179, 1904 | | | Huanyu | 0264, 0217, 0374, 0817 | | |
| Grundig | 0706, 0556, 0037, 0195, 0487, 0036, 0587, 1954, 1935, 1916, 1376, 1308, 0683, 0672, 0554, 0535, 0443, 0163, 0070, 0009 | Harman/Kardon | 0054 | | | Huaqiang | 0264, 0412 | | |
| Grundy | 0180, 0195, 0179 | Harsper | 0865 | | | Huari | 0145, 0264, 0412 | | |
| Grunkel..... | 1163 | Harvard | 0180 | | | Hugoson | 0890, 1217 | | |
| Grunpy | 0180, 0179 | Harwa | 0773, 1196, 1269 | | | Huodateji | 0051 | | |
| H & B | 0808 | Harwood | 0037, 0487, 0009, 0032, 0412 | | | Hygashi..... | 0217 | | |
| Haaz..... | 0706 | Hauppauge | 0037 | | | Hyper | 0009, 0217, 0247 | | |
| Haier | 0037, 0698, 0587, 0508, 0768, 0891, 0896, 1034 | Havermy..... | 0093 | | | Hypersonic | 0361 | | |
| Haihong..... | 0009 | HCM..... | 0037, 0264, 0218, 0009, 0217, 0282, 0412, 0418 | | | Hypson | 0556, 0037, 0714, 0668, 1037, 0486, 0264, 0455, 0217, 0282 | | |
| Haiyan | 0264, 0412, 0817 | Heathkit..... | 0017 | | | Hyundai | 0753, 0849, 0860, 0865, 1376, 1531, 1556, 1598 | | |
| Halifax | 0264, 0217 | Helios | 0865 | | | Iberia | 0037 | | |
| Hallmark..... | 0236, 0180, 0178, 0019, 0135, 0179, 0187 | Hello Kitty..... | 0451 | | | ICE..... | 0037, 0264, 0218, 0217, 0371 | | |
| Hampton | 0217 | Hema..... | 0009, 0217 | | | ICeS..... | 0218 | | |
| Hanimex..... | 0218 | Hemmermann .. | 0544 | Hitachi Fujian ... | 0150, 0108, 0860 | IIsonic..... | 1376 | | |
| Hankook..... | 0180, 0178, 0030, 0019, 0056, 0628 | Hewlett Pkd | 1494, 1502, 1088, 1089, 1642 | Hitec | 0698 | Iiyama | 0877, 0890, 1217 | | |
| Hannspree | 1348, 1351 | Hicon | 1467 | Hitsu | 0610, 0218, 0455, 0009 | iLo..... | 1603, 1684 | | |
| Hanseatic | 0556, 0037, 0714, 0634, 0361, 0370, 0009, 0217, 0282, | Hifivox | 0109 | Hoehner | 0714, 0865, 1163, 1556 | Ima..... | 0236, 0180, 0178, 0179 | | |
| | | Highline | 0037, 0264 | Home Elec. | 0606 | Imperial..... | 0037, 0370, 0074, 0247, 0418 | | |
| | | Hikona | 0218, 0474 | Hongmei..... | 0093, 0264, 0009, 0817 | Imperial Crown | 0264, 0009, 0374, 0412, 0661 | | |
| | | Hikone | 0218 | Hongyan..... | 0264, 0412, 0817 | Indiana..... | 0037 | | |
| | | Himitsu | 0180, 0628 | Hornlyphon | 0037, 0012 | Infinity | 0054 | | |
| | | Hinari | 0037, 0264, 0218, 0036, 0009, 0032, 0096, 0163, 0179, 0208, 0282, 0352, 0355, 0443 | Hoshai | 0218, 0455, 0282 | Ingelen..... | 0714, 0610, 0487, 0163 | | |
| | | Hisawa | 0714, 0610, 0218, 0455, 0282 | HP | 1088, 1089, 1494, 1502, 1642 | Ingersol..... | 0009 | | |
| | | Hisense | 1363, 0156, 0748, 0145, 0556, 0508, | Hua Tun | 0009, 1150 | Initial | 1603 | | |
| | | | | Huaafa | 0145, 0009 | | | | |
| | | | | Huanghaimei | 0009 | | | | |

| | | | | | | | |
|------------------|--|---------------|--|-------------------|--|------------------|--|
| Inno Hit..... | 0218, 0009, 0217, 0247, 0282, 1163 | JBL | 0054 | Kamp | 0017, 0180, 0019, 0185, 0217 | Kolin | 0180, 0150, 0053, 0036, 0108, 0033, 0474, 1150, 1331 |
| Innova | 0037 | JCB..... | 0000 | Kanghua..... | 0896 | Kolster | 0037, 0218, 0247 |
| Innovation | 0519 | JDV..... | 1982 | Kangli | 0264, 0009, 0374, 0661, 0817 | Kongque..... | 0264, 0009, 0817 |
| Innowert | 0865, 1298 | Jean..... | 0156, 0051, 0236, 0036, 0003, 0009, 0092, 0179, 0474 | Kangyi | 0264, 0009, 0412 | Konichi | 0009 |
| Inotech | 0773, 0820 | JEC | 0035 | Kapsch | 0361, 0163 | Konig | 0037 |
| Insignia..... | 1564, 0171, 1204, 1326, 1517, 1641, 2002 | Jensen | 0761, 0815, 0817, 1933 | Karcher | 0714, 0610, 0606, 0264, 0370, 0282, 1556 | Konka | 0180, 0037, 0714, 0218, 0587, 0817, 0754, 0720, 0719, 0707, 0703, 0638, 0632, 0628, 0418, 0371, 0282, 0080 |
| Inteq | 0017, 0145 | Jiahua | 0051 | Kathrein..... | 0556 | Kontakt..... | 0487 |
| Interbuy | 0037, 0264, 0009, 0247 | JiaLiCai..... | 0264, 0009, 0412 | Kawa | 0371 | Korpel | 0037 |
| Interfunk | 0037, 0361, 0012, 0109, 0163, 0200, 0247, 0327, 0512 | JIL..... | 0030, 0019 | Kawasho | 0030, 0019, 0185 | Korting..... | 0370, 0039 |
| Internal | 0037, 1909 | Jinfeng..... | 0051, 0226, 0208, 0817 | Kaypani | 0052 | Kosmos | 0037 |
| Intervision..... | 0037, 0486, 0487, 0264, 0218, 0455, 0009, 0217, 0247, 0282, 0394, 0519 | Jinque | 0264, 0009, 0412, 0817 | KB Aristocrat.... | 0163 | Kost | 1262 |
| Irradio | 0037, 0218, 0009, 0247, 0371 | Jinta | 0264, 0009, 0412 | KDS..... | 1498 | Kotron | 0412 |
| IRT..... | 0451, 1661, 0698, 0628 | Jinxing | 0054, 0156, 0145, 0556, 0037, 0698, 0264, 0009, 0817 | KEC..... | 0180, 0060 | Koyoda | 0009 |
| Isukai | 0037, 0218, 0455, 0282 | JMB | 0556, 0634, 0443, 0499 | Ken Brown | 0236, 0463 | Kriesler | 0012 |
| ITC..... | 0217 | JNC..... | 1964 | Kendo | 0037, 1037, 0610, 0370, 0247, 0362, 0411, 0519, 0648 | KTV..... | 0463, 0180, 0030, 0039, 0185, 0217, 0280 |
| ITS..... | 0037, 0264, 0218, 0282, 0371 | Jocel | 0712 | Kenia | 0030, 0019 | Kuaile | 0264, 0009, 0412 |
| ITT | 0548, 0610, 0361, 0163, 0179, 0208, 0339, 0346, 0473, 0480, 0544 | Johnson..... | 0455 | Kenmore | 0146 | Kulun | 0009 |
| ITT Nokia | 0180, 0548, 0195, 0610, 0606, 0361, 0070, 0163, 0179, 0208, 0339, 0346, 0473, 0480 | Jubilee | 0556 | Kennedy | 0163 | Kunlun | 0051, 0264, 0226, 0208, 0374, 0661, 0817 |
| ITV..... | 0037, 0264, 0247, 0374 | Juhua | 0264, 0412, 0817 | Kennex | 0668, 1037 | Kyoshu | 0032, 0412, 0418 |
| IX..... | 0877 | Jutan | 0030, 0019 | Kenwood..... | 0180, 0030, 0019 | Kyoto | 0032, 0163, 0217 |
| Janeil | 0046 | JVC..... | 1253, 0054, 0093, 0463, 0053, 0030, 0606, 0218, 0036, 0650, 0653, 0508, 0055, 0070, 0371, 0418, 0683, 0731, 1172, 1923 | Khind | 0706, 0896 | L&S Electronic . | 0714, 0808, 0865 |
| | | Kaige | 0264, 0009, 0412, 0817 | KIC | 0217 | Lark | 0154, 0386 |
| | | Kaisui | 0037, 0218, 0455, 0009, 0217, 0282 | Kiota | 0455, 0371 | LaSAT | 0486 |
| | | Kambrook..... | 0217 | Kioto | 0054, 0706, 0556 | Lavis | 1037 |
| | | | | Kiton | 0037, 0668 | Leader | 0009 |
| | | | | KLH | 0156, 0180, 0765, 0767 | Lecson | 0037 |
| | | | | KLL..... | 0037 | Legend | 0009 |
| | | | | Kloss | 0030, 0024, 0046 | Lemair | 0032, 0411 |
| | | | | KMC | 0003, 0032 | | |
| | | | | Kneissel..... | 0556, 0037, 0610, 0370, 0362, 0374, 0411, 0499 | | |
| | | | | Kobra | 1467 | | |

| | | | | | | | |
|--------------------|--|--------------------|---|----------------|--|-----------------|---|
| Lenco | 0037, 1037, 0587, 0374, 0474 | Logix | 0668, 0519 | Magnavox | 0047, 0054, 0154, 0000, 0250, 0051, 0180, 0060, 0030, 0171, 1454, 0706, 0037, 0036, 1931, 1904, 1755, 1525, 1365, 1254, 1198, 0802, 0780, 0729, 0386, 0282, 0011, 0187, 0186, 0019, 0179, 0020, 0111, 0096, 0092, 0024, 0035 | Matsuiama..... | 0587 |
| Lenoir | 0009 | Longjiang | 0264, 0412, 0817 | | | Maxdorf | 0773 |
| Lesa | 0247 | Luker | 1982 | | | Maxent | 0762, 1211, 1755, 1756, 1757 |
| Lexsor | 1196 | Luma | 1037, 0009, 0163, 0362, 0374, 0411 | | | Maxim | 1556, 1982 |
| Leyco | 0037, 0264 | Lumatron | 0556, 0037, 0361, 0264, 0163, 0217 | | | MCE | 0009 |
| LG | 1423, 0054, 1265, 0060, 0178, 0030, 0556, 0037, 0714, 0698, 0361, 0370, 0108, 1305, 1325, 1378, 1178, 1154, 0856, 0829, 1637, 1758, 0700, 1926, 0644, 0474, 0442, 0247, 0217, 0163, 0109, 0056, 0039, 0038, 0032, 0019, 0009, 0003 | Lux May..... | 0037, 0009 | | | Meck | 0698, 0891 |
| Liesenk & Tter . | 0037 | Luxman | 0056 | | | Mediator..... | 0556, 0037, 0012 |
| Liesenkotter | 0037, 0012, 0327 | Luxor | 0548, 1037, 0361, 0163, 0179, 0208, 0217, 0346, 0473, 0480, 1163 | | | Medion | 0556, 0037, 0714, 0668, 1037, 0698, 1137, 0512, 0808, 0880, 1248, 1900 |
| Lifetec | 0037, 0714, 0668, 1037, 1137, 0218, 0009, 0374, 0519, 0683 | LXI | 0047, 0054, 0017, 0154, 0000, 0156, 0051, 0093, 0060, 0053, 0178, 0030, 0171, 0166, 0037, 0036, 0135, 0146, 0159, 0165, 0179, 0208, 0280, 0096, 0056, 0055, 0016, 0018, 0039, 0038, 0035, 0032, 0024, 0021, 0020, 0019 | | | Megapower | 0700 |
| Lihua | 0817 | M & S | 0054 | | | Megas | 0610 |
| Lloyd's | 0236, 0180, 0030, 0009, 0032, 0039, 0056, 0179, 1904 | M Electronic | 0037, 0714, 0634, 0195, 0661, 0512, 0492, 0480, 0411, 0374, 0346, 0343, 0287, 0247, 0217, 0163, 0109, 0105, 0009 | | | Megatron..... | 0047, 0178, 0145, 0003, 0009, 0056, 0151 |
| Lloytron | 0032 | | | | | MEI..... | 1037, 0185 |
| Local Chennai TV | 0009 | | | | | Meile | 0264, 0412, 0817 |
| Local India TV . | 0264, 0009, 0208, 0371, 0602 | | | | | Memorex | 0154, 0250, 0463, 0180, 0150, 0060, 0178, 0030, 0037, 0195, 1037, 1926, 1911, 0877, 0179, 0165, 0056, 0039, 0035, 0032, 0016, 0009 |
| Local Malaysia TV | 0698 | | | | | Manhattan | 0037, 0668, 1037 |
| Lodos | 1037 | | | | | Marqma | 1467 |
| Loewe | 0693, 0037, 0370, 0136, 0512, 0633, 0790 | | | | | Marantz..... | 0054, 0030, 1454, 0556, 0037, 0412, 0704, 0854, 0855, 1154, 1398 |
| Logik | 0236, 0180, 0060, 1037, 0698, 0009, 0011, 0016, 0033, 0056, 0179, 0371, 0773, 0880, 1217 | | | | | Mark..... | 0037, 0714, 0009, 0217, 0374 |
| | | | | | | Maruman..... | 0627 |
| | | | | | | Master's | 0499 |
| | | | | | | Mastro | 0053, 0706, 0698, 0780 |
| | | | | | | Masuda | 0037, 0264, 0218, 0009, 0217, 0371 |
| | | | | | | Matsui | 1163, 0556, 0037, 0714, 0195, 1037, 0487, 0036, 0455, 0433, 1916, 0744, 0544, 0443, 0371, 0355, 0352, 0335, 0217, 0208, 0177, 0163, 0056, 0039, 0035, 0033, 0011, 0009 |
| | | | | | | Matsushita..... | 0250, 0051, 0650 |

| | | | | | | | |
|------------------|--|------------------|--|-----------------|--|---------------|--|
| Microstar | 0808 | Multitech | 0180, 0037, 0486, 0264, 0370, 0009, 0179, 0217, 0247 | Neufunk..... | 0556, 0037, 0714, 0610, 0218, 0009 | Oceanic | 0548, 0361, 0163, 0208, 0473 |
| MicroTEK | 0820, 0860 | | | New Tech | 0556, 0037, 0009, 0056, 0217, 0343 | Odeon | 0264 |
| Midland | 0047, 0017, 0051, 0018, 0019, 0032, 0039, 0056, 0135 | Murphy | 0032, 0039, 0163, 0474 | New World | 0218 | Okano | 0037, 0264, 0370, 0009 |
| Mikomi | 1037, 1149 | Musikland | 0218, 0247 | Newave | 0093, 0178, 0009, 0092, 1150 | Olevia | 1144, 1240, 1331, 1610 |
| Minato | 0556, 0037 | Mx Onda..... | 1498 | Nextier..... | 1598 | Olidata | 1376 |
| Minerva | 0195, 0487, 0108, 0070, 0535, 0554 | Myryad | 0556 | Nicam | 0544 | Omega | 0264 |
| Minoka | 0037, 0412 | NAD | 0156, 0178, 0166, 0037, 0361, 0019, 0056, 0866, 1156 | Nikkai | 0037, 0264, 0218, 0036, 0009, 0032, 0035, 0163, 0179, 0217 | Omni..... | 0748, 0698, 0780, 0826, 0872, 0891 |
| Mintek | 1603 | Naiko | 0037, 0606, 1982 | Nikkei | 0714 | Onida | 0053, 1253 |
| Minutz | 0021 | Nakimura | 0037, 0374 | Nikko | 0178, 0030, 0092 | Onimax | 0714 |
| Mirror | 1900 | Nanbao | 0264, 0009, 0412 | Nikkodo..... | 0178, 0030, 0092 | Onking | 0280 |
| Mitsubishi..... | 0150, 0868, 0154, 0250, 0093, 0236, 0180, 1250, 0178, 0030, 0556, 0037, 0195, 1037, 0036, 0108, 1171, 1150, 1182, 0836, 0817, 1917, 0535, 0512, 0474, 0381, 0179, 0056, 0033, 0019, 0011 | Nansheng | 0264, 0412, 0817 | Nintaus..... | 0891 | Onwa | 0180, 0218, 0433, 0371, 0602 |
| Mivar | 0217, 0609 | Narita | 1982 | Nishi | 0030, 0018 | Opera | 0037 |
| Monaco | 0009 | NAT | 0226 | Noblex | 0154, 0037, 0264, 0018, 0052 | Optimus..... | 0154, 0250, 0093, 0180, 0150, 0178, 0030, 0166, 0650, 0016, 0032, 0039, 0056, 0165 |
| Monivision | 0700, 0843 | National | 0051, 0226, 0508, 0055, 0208 | Noblisko..... | 0070 | Optoma | 0887, 1348 |
| Morgan's | 0037 | NEC | 1398, 0047, 0154, 0156, 0051, 0053, 0178, 0030, 0264, 0036, 0455, 0653, 0508, 0499, 0603, 0661, 0704, 0817, 0882, 1150, 1182, 1378, 1456, 1704, 0497, 0474, 0412, 0381, 0374, 0217, 0186, 0170, 0165, 0056, 0046, 0019, 0016, 0011, 0009 | Nogamatic | 0109 | Orbit | 0037 |
| Motorola..... | 0054, 0051, 0093, 0150, 0055 | Neckermann | 0556, 0037, 0370, 0200, 0247, 0327, 0411, 0418, 0554 | Nokia | 0180, 0548, 0610, 0606, 0361, 0163, 0179, 0208, 0339, 0346, 0374, 0473, 0480, 0492 | Origo | 0003 |
| MTC | 0180, 0060, 0030, 0370, 0011, 0019, 0032, 0039, 0056, 0092, 0185, 0282, 0512 | NEI..... | 0037, 0163, 0371 | Norcent | 0748, 0824, 1089, 1365, 1590 | Orion | 0443, 0017, 0236, 0463, 0180, 0178, 0556, 0037, 0714, 0264, 1954, 1929, 1916, 1911, 1463, 1196, 0880, 0544, 0474, 0443, 0412, 0355, 0179, 0177, 0019, 0011 |
| MTEC | 0032 | Neovia | 0865, 1376, 1964 | Nordic | 0217 | Orline | 0037, 0218 |
| MTlogic | 0714 | Nesco | 0179, 0247 | Nordmende | 0037, 0714, 0560, 0195, 0109, 0287, 0343, 0891 | Ormond | 0668, 1037 |
| Mudan | 0051, 0264, 0226, 0009, 0208, 0412, 0817 | Netsat | 0037 | Normerel | 0037 | Osaki | 0556, 0037, 0264, 0218, 0032, 0217, 0355, 0374, 0412, 0474 |
| Multitec | 0037, 0668, 1037, 0486, 1556 | NetTV | 0762, 1755 | Noshu | 0018 | Osio..... | 0037 |
| | | Network | 0032 | Novak | 0012 | | |
| | | | | Novatronic..... | 0037, 0105, 0374 | | |
| | | | | NTC..... | 0092 | | |
| | | | | Nu-Tec | 0698, 0455, 0820 | | |
| | | | | Nyon..... | 0000 | | |

| | | | | | | | |
|-------------------|---|------------------|--|---------------|--|-----------------|--|
| Quadral | 0051, 0218 | | 0165, 0157, 0135, 0092 | Saba..... | 0250, 0625, 0548, 0714, 0560, 0361, 0109, 0163, 0287, 0335, 0343, 0498 | Sanky | 0060, 0030, 0019, 0038, 0039, 0280 |
| Qualcraft | 0039 | Realistic | 0047, 0154, 0180, 0150, 0178, 0030, 0003, 0016, 0019, 0032, 0039, 0056, 0165 | Sagem | 0610, 0455, 0618, 0830 | Sansei | 0451, 0092 |
| Quartz | 0150, 0178, 0046 | Recor | 0037, 0418 | Saige | 0009, 0817 | Sansui | 0463, 0060, 0030, 0706, 0037, 0714, 0455, 1935, 1929, 1911, 1904, 1537, 1531, 0826, 0753, 0729, 0602, 0371, 0165, 0019 |
| Quasar | 0250, 0051, 0650, 0009, 0016, 0024, 0035, 0055, 0165, 0247, 0474, 0865, 1919 | Rectiligne..... | 0037 | Saisho | 0264, 0009, 0011, 0033, 0163, 0177, 0217, 0544 | Santon | 0009 |
| Quelle | 0037, 0668, 0195, 1037, 0361, 0554, 0544, 0535, 0512, 0327, 0247, 0200, 0109, 0074, 0070, 0032, 0011 | Rediffusion..... | 0548, 0361, 0036, 0163, 0346 | Saivod | 0037, 0668, 1037, 0712, 1163, 1556, 1982 | Sanyo | 0047, 0054, 0154, 0000, 0156, 0463, 0180, 0145, 0171, 0037, 0264, 0370, 0036, 0108, 0508, 0412, 0424, 0474, 0544, 0704, 0798, 0799, 0893, 1755, 1208, 1142, 1150, 1154, 1179, 0381, 0376, 0339, 0280, 0217, 0208, 0170, 0163, 0159, 0157, 0146, 0105, 0088, 0046, 0011, 0009 |
| Questa | 0036, 0032 | Redstar | 0037 | Sakai | 0163 | Sanyong | 0037 |
| Questar | 0036 | Reflex | 0037, 0668, 1037 | Sakyno | 0455 | Sanyuan | 0093, 0009, 0817 |
| R-Line | 0037 | Relisys | 0865, 0877, 0878, 1211, 1298 | Salora | 0548, 0361, 0163, 0208, 0480 | Saville | 0060 |
| Rabbit | 0047 | Remotec | 0250, 0093, 0145, 0171, 0037, 0376, 0424, 0509, 0627 | Salsa | 0335 | SBR | 0556, 0037, 0012 |
| Radialva | 0218, 0163 | Reoc | 0714 | Salora | 0335 | Sceptre..... | 0878, 1217, 1360, 1599 |
| Radiola | 0556, 0037, 0012, 0217 | Revox | 0037 | Sampo | 0047, 0154, 0093, 0178, 0030, 0171, 0036, 0650, 1756, 1755, 0762, 0700, 0474, 0092, 0052, 0039, 0032, 0009 | Schaub Lorenz . | 0548, 0714, 0486, 0606, 0361, 0374 |
| Radiomarelli | 0037, 0247 | Rex | 0264, 0163, 0247, 0411 | Samsung..... | 1249, 1619, 0060, 0054, 0017, 0154, 0156, 0093, 0047, 0812, 0702, 0178, 0030, 0556, 0037, 0264, 0370, 0036, 0587, 0618, 0226, 1060, 0817, 1150, 0814, 1235, 0774, 0766, 1312, 0718, 1584, 0644, 1630, 1903, 0009, 0019, 0032, 0035, 0039, 0055, 0056, 0090, 0092, 0163, 0179, 0208, 0217, 0362, 0371, 0474, 0519 | Schneider | 0556, 0037, 0714, 0668, 1037, 0361, 1137, 0218, 1982, 1904, 0648, 0544, 0519, 0394, 0371, 0352, 0343, 0247, 0217, 0163, 0070, 0012 |
| RadioShack..... | 0047, 0154, 0180, 0150, 0178, 0030, 0037, 0019, 0032, 0039, 0056, 0165, 1904 | RFT | 0037, 0264 | Samsux | 0038, 0039 | Scimitsu..... | 0019 |
| Radiotone | 0037, 0668, 1037, 0264, 0370, 0009, 0412, 0418, 0648 | Rhapsody | 0185 | Sandra | 0217 | Scotch | 0178 |
| Rank..... | 0070 | Rinex | 0773 | Sanjian | 0264, 0412 | | |
| Rank Arena..... | 0036, 0602, 0753 | Road Authority . | 0282 | | | | |
| RBM | 0070 | Roadstar | 0037, 0714, 0668, 1037, 0264, 0218, 0009, 0282, 0418, 1189, 1900 | | | | |
| RCA..... | 0047, 0054, 0000, 0051, 0093, 0060, 0178, 0030, 1447, 1454, 0625, 0560, 0618, 2002, 1922, 1919, 1917, 1547, 0018, 0019, 1347, 1247, 1147, 1047, 0774, 0753, 0679, 0021, 0038, 0090, | Rover | 0036, 0877 | | | | |
| | | Rowa | 0748, 0037, 0698, 0712, 0264, 0587, 0009, 0817 | | | | |
| | | Royal | 0825 | | | | |
| | | Royal Lux | 0370, 0335, 0412 | | | | |
| | | Runco | 0017, 0060, 0030, 0016, 0497, 0603, 1398 | | | | |
| | | Ruyi..... | 0817 | | | | |

| | | | | | | | |
|------------------|--|-----------------|--|-------------------|---|-------------------|---|
| Scotland..... | 0163 | Sharp | 1393, 0818, 0093, 1602, 0054, 0180, 0053, 0030, 0668, 0036, 0650, 0653, 1193, 0688, 0689, 0720, 0787, 0851, 1165, 1917, 0491, 0474, 0386, 0256, 0200, 0179, 0165, 0157, 0039, 0032, 0019, 0009 | Silver | 0361, 0036, 0455, 0019, 0179 | Sonolor..... | 0548, 0361, 0163, 0208, 0282 |
| Scott | 0236, 0180, 0178, 0030, 0019, 0039, 0177, 0179, 1189 | Shen Ying | 0003, 0009, 0092, 0179, 0474 | SilverCrest | 1037 | Sontec | 0037, 0370, 0009 |
| Sears | 0047, 0054, 0017, 0154, 0000, 0156, 0051, 0093, 0060, 0053, 0178, 0030, 0171, 0166, 0037, 0036, 0159, 0165, 0179, 0208, 0280, 1904, 1926, 0146, 0135, 0096, 0056, 0055, 0039, 0038, 0035, 0032, 0024, 0021, 0020, 0019, 0018, 0016 | Shencai..... | 0145, 0264, 0009, 0412 | Simpson..... | 0178, 0030, 0011, 0186, 0187 | Sony | 0000, 0834, 1599, 0017, 0154, 1100, 0150, 0053, 0037, 1505, 0036, 0650, 1925, 1904, 1751, 1685, 1651, 1619, 0011, 1317, 1300, 1167, 0074, 0810, 0080, 0632, 0353, 0157, 0111 |
| Seaway | 0634 | Sheng Chia..... | 0093, 0236, 0009, 0033, 0179, 0474, 1150 | Singer | 0060, 0037, 0433, 0009, 0092, 0247, 0335, 0371, 0891, 1537 | Sound & Vision | 0218, 0374 |
| Seelver | 1037 | Shenyang | 0264, 0009, 0696, 0753, 0817 | Sinotec..... | 0773 | Soundesign | 0180, 0178, 0019, 0056, 0179, 0186 |
| SEG..... | 0037, 0668, 1037, 0487, 0264, 0218, 0036, 0009, 0217, 0247, 0362, 1163 | Sherwood..... | 0009 | Sinudyne..... | 0037, 0361, 0163, 0177, 0544 | Soundwave | 0037, 0032, 0418 |
| SEI..... | 0037, 0163, 0177, 0544 | Shintoshi | 0037 | Skantic..... | 0163 | Sowa | 0156, 0051, 0060, 0178, 0036, 0226, 0092, 0474, 1150 |
| Sei-Sinudyne.... | 0037, 0544 | Shivaki..... | 0178, 0556, 0037, 0374, 0443 | SKY..... | 0037, 0282, 0880 | Soyea | 0773 |
| Seimitsu | 0019 | Shogun | 0019 | Sky Brazil..... | 0880 | Spectra..... | 0009 |
| Seleco | 0264, 0163, 0346, 0362, 0371, 0411, 1351 | Shorai | 0179 | Sky-North | 0037 | Spectravision ... | 0156, 0178, 0159, 0179, 0186 |
| Semivox | 0236, 0463, 0180 | Show | 0009, 0418 | Skygiant..... | 0180 | Spectricon..... | 0003, 0032 |
| Semp..... | 0156, 1356 | Siam | 0037 | Skysonic | 0696, 0753 | Spectroniq..... | 1498 |
| Sencora..... | 0009 | Siarem | 0163 | Skyworth..... | 0748, 0037, 0698, 0264, 0009, 0696, 0753, 0817, 0825 | Squareview..... | 0171 |
| Sentra | 0035 | Siemens..... | 0145, 0037, 0195, 0032, 0146, 0157, 0200, 0327, 0535, 0554 | Sliding..... | 0865, 0880 | SR2000 | 0154, 0171 |
| Serie Dorada.... | 0156, 0180, 0178, 0030, 0019, 0056 | Siera | 0556, 0037, 0012 | SLX | 0668 | Ssangyong | 0009, 0032 |
| Serino | 0093, 0610, 0455 | Siesta | 0370 | Smaragd | 0487 | SSS | 0180, 0019 |
| Shancha..... | 0264, 0412, 0817 | Signature | 0047, 0093, 0030, 0016, 0165, 0179, 0187 | Solar Drape..... | 0000, 0032 | Stag..... | 0032 |
| Shanghai..... | 0264, 0226, 0009, 0208, 0412, 0817 | Signet | 1262 | Solavox | 0037, 0548, 0361, 0032, 0163 | Staksonic | 0009 |
| Shaofeng..... | 0145, 0817 | Silva | 0037, 0361, 0648 | Sole..... | 0813 | Standard..... | 0037, 1037, 0218, 0009, 0217, 0374 |
| | | Silva Schneider | 0037, 1556 | Sonawa | 0218 | Standard Comps | 0218, 0009 |
| | | Silvano..... | 0587 | Songba | 0009 | Starlite..... | 0236, 0180, 0037, 0264, 0009, 0019, 0163 |
| | | | | Soniko | 0037 | Stenway | 0218, 0282 |
| | | | | Soniq | 1467 | Stern | 0264, 0163, 0411 |
| | | | | Sonitron | 0370, 0208, 0217, 0339 | Stevison | 1982 |
| | | | | Sonix | 1376 | | |
| | | | | Sonneclair..... | 0037 | | |
| | | | | Sonoko | 0037, 0264, 0009, 0217, 0282 | | |

| | | | | | | | |
|-------------------|--|---------------|--|-------------------|--|-------------------|--|
| Strato | 0037, 0264, 0009 | Synco | 0000, 0451, 0093, 0060, 0178, 0036, 0092, 0474 | Tech Line | 0037, 0668, 1163 | | 0754, 0820, 0896, 1556 |
| Strong | 1149, 1163 | Syntax | 1144, 1240, 1331 | Tech Lux..... | 1189 | Telefusión | 0037 |
| Studio Experience | 0843 | Sysline | 0037 | Techica..... | 0218 | Telegazi..... | 0037, 0264, 0218, 0163 |
| Stylandia | 0217 | T+A | 0447 | Technica..... | 1982 | Telemeister | 0037 |
| Sunkai | 0610, 0487, 0218, 0455, 0355, 0865 | Tacico | 0178, 0009, 0092, 0179, 0474, 1150 | Technics..... | 0054, 0250, 0051, 0556, 0650, 0226, 0046, 0055 | Telesonic | 0037 |
| Sunstar | 0037, 0264, 0009, 0371 | Tai Yi | 0009, 1150 | TechniSat | 0556 | Telestár | 0556, 0037, 0009 |
| Sunwatt | 0455 | Taishan | 0009, 0374, 0817 | Technisson | 0714, 1289 | Teletech | 0037, 0668, 1037, 0009, 0247 |
| Sunwood | 0037 | Talent | 0178 | Technol Ace | 0179 | Teleton | 0036, 0179, 0186, 0217 |
| Superla | 0217 | Tandberg..... | 0361, 0109, 0367 | Technosonic | 0556, 0499 | Televideon | 0163 |
| Superscan | 0093, 0864 | Tandy | 0093, 0218, 0039, 0163, 0165, 0217, 0247 | Technotrend | 1531 | Television | 0037 |
| Supersonic | 0455, 0009, 0208, 1189 | Tashiko | 0036, 0650, 0032, 0033, 0092, 0146, 0163, 0170, 0217, 1150 | Technovox | 0030, 0217 | Tempst | 0264, 0455, 0009 |
| SuperTech | 0556, 0037, 0218, 0009 | Tatung | 0054, 0154, 0000, 0156, 0051, 0060, 0037, 0036, 0038, 0033, 0055, 0011, 0009, 0003, 0217, 0474, 1150, 1156, 1248, 1254, 1556, 1756 | Techview | 0847 | Tennessee | 0037 |
| Supra | 0178, 0009, 0039, 0056, 0374 | TCC | 0826 | Techwood | 0250, 0051, 0060, 0003, 0055, 0056, 1163 | Tensai | 0037, 1037, 0218, 0009, 0105, 0217, 0247, 0371, 00374 |
| Supre-Macy | 0039, 0046, 0186 | TCL | 0706, 0698, 0412, 0826, 1537 | Tecnimagen..... | 0556 | Tenson | 0009 |
| Supreme..... | 0000 | TCM..... | 0714, 0808, 1289 | Teco | 0051, 0093, 0178, 0264, 0218, 0036, 0653, 0009, 0092, 0280, 0474 | Tera..... | 0030, 0092, 0466, 0474 |
| Susumu | 0218, 0287, 0335, 0474 | Teac | 0706, 0154, 0178, 0171, 0037, 0714, 0668, 1909, 1037, 0698, 0712, 0264, 0455, 0418, 0512, 0544, 0412, 0689, 0282, 0217, 0170, 0159, 0146, 1149, 1755, 1904, 0009 | Tedelex..... | 0698, 0606, 0009, 0208, 0217, 0418, 0891, 1537 | Tevion | 0556, 0037, 0714, 0668, 1037, 1137, 0648, 0767, 0808, 1248, 1259, 1289, 1298, 1498, 1556 |
| Sutron | 0009 | Tec | 0037, 0009, 0163, 0217, 0247, 0335, 0474 | Teiron | 0009 | Texet | 0218, 0009, 0217, 0374 |
| SV2000 | 0054 | | | Tek..... | 0820 | Texla | 0780 |
| SVA..... | 0748, 0587, 0768, 0865, 0870, 0871, 0872 | | | Teknika..... | 0054, 0463, 0180, 0150, 0060, 0178, 0016, 0019, 0032, 0039, 0046, 0056, 0092, 0179, 0186 | ThemeScene | 0887 |
| Svasa | 0455 | | | Teleavia | 0287, 0343 | Thomas | 0047, 0178, 0019, 0039, 0056, 1904 |
| Swisstec..... | 0880 | | | Telecolor | 0017 | Thomson | 0047, 1447, 0037, 0625, 0560, 0109, 0287, 0335, 0343 |
| Sydney | 0217 | | | Telecor | 0037, 0218, 0163, 0217, 0394 | Thorn | 0037, 0361, 0264, 0036, 0035, 0074, 0109, 0163, 0335, 0343, 0499, 0512, 0535 |
| Sylvania..... | 1271, 0047, 0054, 0154, 0000, 0051, 0178, 0030, 0171, 0037, 0036, 0381, 1314, 1394, 1904, 1926, 1931, 0187, 0186, 0179, 0159, 0096, 0092, 0056, 0024, 0020 | | | Telefunken..... | 0702, 0037, 0625, 0714, 0560, 0486, 0698, 0712, 0587, 0498, 0346, 0343, 0335, 0287, 0109, 0074, 0056, 0753, | Thorn-Ferguson | 0335, 0343, 0499 |

| | | | | | | |
|--------------------|-------------------|-----------------|-------------------|-------------------|---------------|-------------------|
| Tiane | 0093, 0817 | Toyoda | 0264, 0009, 0371 | 0544, 0554, 1163, | Waltham | 0037, 0668, 1037, |
| Tiny | 1269 | Toyomenka | 0178 | 0346, 0327, 0247, | | 0109, 0217, 0418, |
| Tiny Digital | 0660 | Trakton..... | 0264, 0217 | 0217, 0200, 0177, | | 0443 |
| TMK | 0236, 0180, 0178, | Trans Continens | 0037, 0668, 1037, | 0170, 0157, 0146, | Wards | 0047, 0054, 0017, |
| | 0056, 0177 | | 0217 | 0109, 0105, 0074, | | 0154, 0000, 0156, |
| TML..... | 1756 | TRANS-contr .. | 0556, 0865 | 0070, 0032, 0011, | | 0051, 0093, 0236, |
| TNCi..... | 0017 | Transonic | 0037, 0698, 0712, | 0009 | | 0180, 0060, 0178, |
| Tobishi..... | 0218 | | 0264, 0455, 0587, | Univox | | 0030, 0166, 0037, |
| Tobo | 0748, 0264, 0009, | | 0009, 0418, 0512, | V..... | | 0195, 0020, 0019, |
| | 0412 | | 0780 | | | 0165, 0179, 0018, |
| Tocom | 0156 | Triad | 0556, 0218 | V2max | | 0186, 0187, 0016, |
| Tokai | 0037, 0668, 1037, | Trical | 0157 | | | 0866, 1147, 1156, |
| | 0009, 0163, 0217, | Trident..... | 0217 | V7 Videoseven . | | 1347, 0151, 0135, |
| | 0374 | Trio..... | 1498 | | | 0111, 0096, 0021, |
| Tokaido..... | 1037 | Tristar..... | 0264, 0218 | Vector Research | | 0080, 0024, 0056, |
| Tokyo | 0035 | Triumph | 0556, 0037, 0177, | Vestel | | 0055, 0027, 0033, |
| Tomashi..... | 0218, 0282 | | 0346 | | | 0046, 0039, 0038, |
| Tongguang | 0264, 0412 | Truetone | 0250, 0051, 0055 | Vexa | | 0035 |
| Tongtel | 0587, 0780 | Tsoschi | 0282 | Victor | | Warumaia |
| Tophouse | 0180, 0672 | Tuntex | 0030, 0009, 0092, | | | 0374, 0661 |
| Topline..... | 0668, 1037 | | 0474 | Videocon..... | | 0037, 0714, 0668, |
| Toshiba..... | 1163, 1256, 1508, | TVS..... | 0463 | Videologic | | 1037, 0218, 0009, |
| | 1306, 0156, 1524, | TVTEXT 95 | 0556 | | | 0163, 0394, 0519, |
| | 0154, 0093, 0150, | Uher..... | 0037, 0486, 0370, | Videologique.... | | 1376 |
| | 1265, 0060, 1145, | | 0019, 0374, 0418, | Videomac..... | | Watt Radio |
| | 0145, 0166, 0195, | | 0480 | | | 0163, 0544 |
| | 1037, 0264, 0036, | Ultra | 0019, 0039, 0092 | Videosat..... | | Waycon |
| | 0618, 0650, 0508, | Ultravox | 0037, 0163, 0247, | | | 0156 |
| | 1325, 1289, 1343, | | 0374 | VideoSystem.... | | Wega |
| | 1356, 1360, 1369, | Unic Line | 0037, 0455, 0473 | | | 0007, 0036 |
| | 1456, 1556, 1635, | Unitech..... | 0039 | Videotechnic.... | | Wegavox |
| | 1656, 1704, 1918, | United | 0037, 0714, 1037, | | | 0009 |
| | 1935, 1936, 0009, | | 0587, 1916, 1982 | Videoton..... | | Weipai |
| | 0011, 0035, 0070, | Universal | 0047, 0037, 0714, | | | 0009 |
| | 0109, 0217, 0381, | | 0021, 0027, 0135 | Vidikron..... | | Welltech..... |
| | 0412, 0423, 0509, | Universum | 0037, 0668, 0195, | | | 0714 |
| | 0644, 0718, 0832, | | 1037, 0361, 0264, | Vidtech..... | | Weltblick |
| | 0845, 1150, 1156, | | 0370, 0036, 0618, | | | 0217 |
| | 1169, 1173 | | 0362, 0411, 0418, | Vidzonic | | Welton |
| Tosonic..... | 0185 | | 0473, 0474, 0480, | | | 0178, 0019 |
| Totevision..... | 0051, 0039 | | 0492, 0512, 0535, | Viewsonic | | Weltstar |
| Towada | 0217 | | | | | 1037 |
| | | | | Viking | | Westinghouse... |
| | | | | | | 0885, 0000, 0451, |
| | | | | Vision | | 0003, 0889, 0890, |
| | | | | | | 1092, 1282, 1577 |
| | | | | Vizio | | Wharfedale |
| | | | | | | 0556, 0037, 0519, |
| | | | | Vortex | | 0860, 0891, 0896, |
| | | | | | | 1556 |
| | | | | Voxson | | White Westinghs |
| | | | | | | 0451, 0236, 0463, |
| | | | | | | 0037, 1909, 0179, |
| | | | | | | 0186, 0623, 0889 |
| | | | | | | Winco |
| | | | | | | 0412 |
| | | | | | | Windsor..... |
| | | | | | | 0668, 1037 |

Windstar..... 0282
 Windy Sam 0556
 Wintel 0714
 World 0451, 0236, 0463,
 0180
 World-of-Vision 0865, 0877, 0880,
 0890, 1217, 1289,
 1298
 Worldview 0455
 Wyse 1365
 Xenius 0634, 0661
 Xiahua 0698, 0264, 0009,
 0412, 0773, 0817
 Xianghai 0009
 Xiangyang 0264, 0412
 Xiangyu 0009
 Xihu 0264, 0412, 0817
 Xinaghai 0412
 Xingfu 0009
 Xinghai 0264
 XLogic 0698, 0860
 Xoro..... 1196, 1217
 XR-1000 0154, 0180, 0171,
 0016, 0096, 0179
 Xrypton..... 0037
 Yamaha 0030, 0650, 0019,
 0769, 0797, 0833,
 0838, 0839, 1576
 Yamishi 0037, 0218, 0455,
 0217, 0282
 Yapshe 0250
 Yingge 0009
 Yokan 0037
 Yoko 0037, 0264, 0370,
 0218, 0009, 0217,
 0247, 0339
 Yonggu 0009
 Yorx 0030, 0218
 Youlanasi 0817
 Yousida..... 0009

Ytaiwai 1531
 Yuhang 0009
 Zanussi 0264, 0163, 0217
 Zenith 0047, 0017, 0000,
 0093, 0463, 1265,
 0812, 0178, 0030,
 1145, 0145, 0171,
 0037, 1909, 0146,
 0092, 0039, 0016,
 1305, 1904, 1911,
 1929
 Zenor 0339
 ZhuHai 0009, 0374
 Zonda 0698, 0003

CBL

3M 0033
 A-Mark..... 0144, 0277, 0008,
 0040
 ABC 0237, 0014, 0003,
 0008, 0007, 0011,
 0013, 0017, 0033
 Accuphase..... 0014, 0003, 0007,
 0011, 0013, 0017
 Acorn 0237
 Action 0237
 Active..... 0237
 ADB 1082, 1230, 1269,
 1927
 Aichi Denshi..... 1512
 Aim 0015
 Allegro 0153, 0315
 American 0060
 Americast 0899
 Amstrad 1222
 Archer 0237, 0153, 0797
 Auna 0277, 1230, 1269
 Austar..... 0276, 0012
 BCC 0276
 Bell & Howell.... 0014
 Bell South 0899
 Birmingham
 Cable Comms.. 0276
 British Telecom 0003
 Cable & Wireless 1068
 Canal+ 0443
 Century 0008, 0153, 0315
 Citation 0017
 Citizen 0153, 0242, 0315
 Clearmaster 0883
 ClearMax..... 0883
 Colour Voice.... 0025, 0031
 Comcor 1522
 Comcrypt 0443
 Comtec 0019
 Comtronics 0040, 0060
 Contec 0019
 Cool Box 0883
 Coolmax 0883
 Curtis Mathes... 0015, 0242
 Daeryung..... 0877, 1877, 0477,
 0277, 0008
 Dalvi 1522
 Digeo 1187
 Digi 0637
 Director 0476
 Dumont 0637
 DX Antenna..... 1500, 1502
 Eastern 0002, 0418
 Emerson..... 0014, 0015, 0797
 Encon 0008
 Everquest 0015, 0040
 Fastweb 1630
 Filmnet 0443
 Focus 0400

Force 1798
 Fosgate 0276
 Foxtel 1222
 France Telecom 0817
 Freebox 1482
 Fujitsu..... 1497
 Funai 0019
 Galaxi 0008
 Garrard 0153
 GC Electronics 0040
 GE 0237, 0144, 0021
 Gehua 0476
 Gemini 0015, 0070, 0242,
 0400, 0797
 General Instr. 0476, 0810, 0014,
 0276, 0003, 0012,
 0011, 0015, 0024
 Getterson 0040
 Gibraltar 0003
 GMI..... 0015, 0797, 0883
 Golden Channel 1110
 GoldStar 0144, 0040
 Goodmind 0797
 Hamlin 0009, 0273, 0015
 Hitachi 0009, 0014, 0003,
 0008, 0011, 0033
 Houston..... 0011
 Humax 1813
 Hytek 0007
 Hytex 0007
 Insight..... 0476, 0810
 Jasco 0015, 0153, 0315
 Jebsee 0014, 0400
 Jerrold 0476, 0810, 0014,
 0276, 0003, 0012,
 0011, 0015, 0024,
 0031
 Kabel Deutschld 1981
 Kabelvision..... 0003

Kloss 0277
 KNC 0008
 Kuang Yu..... 0024
 Leon..... 0015
 LG 0144, 0040
 Macab 0817
 Macom 0033
 Madritel 1230
 Magnavox 0014, 0797
 Maspro 1510
 Matav 1082
 Melita 0003
 Mellenium 0153
 Memorex..... 0000
 Mitsubishi..... 0003
 MNET 0019, 0443
 Mood..... 1386
 Motorola..... 1376, 0476, 0810,
 1187, 1254, 0014,
 0276, 1106, 0400,
 1540
 MS..... 0015
 Multichoice..... 0019, 0443
 Multitech 0883
 MultiVision..... 0012
 NEC..... 1496
 Nikkai 0153
 Nokia 1569
 Noos..... 0817, 1624
 Nova Vision 0277, 0008
 Novaplex..... 0277, 0008, 0017
 NSC..... 0012, 0070, 0400,
 0637
 NTL 1068, 1060, 0276,
 0003, 0277
 Oak 0019, 0007, 0017
 Ono 1068
 Optimus 0021
 Optus 1060, 0276

Pace 0877, 1877, 0237,
 1068, 1060, 0008,
 1577
 Panama 0107, 0021
 Panasonic 0000, 0144, 0107,
 0008, 0021, 0040,
 0375, 1488
 Panther..... 0637
 Paragon..... 0000, 0525, 0008
 Penney 0000, 0637
 Philips..... 0317, 0817, 0013,
 0025, 0031, 0060,
 0153, 0242, 0290,
 1305
 Pioneer 0877, 1877, 0144,
 0533, 0023, 1021,
 1500
 Popular Mechs . 0400
 Prism 0012, 0013
 Pulsar 0000, 0040
 Pulsar 0040
 PVP Stereo VM. 0003
 Quasar 0000
 R-Line 0040
 RadioShack..... 0015, 0153, 0315,
 0797, 0883
 RCA 1256, 0021, 0060,
 0797
 Realistic 0153
 Recoton..... 0153, 0400
 Regal 0279, 0273, 0276
 Regency 0002
 Rembrandt 0011, 0040, 0070,
 0153
 Runco 0000
 Sagem 0817, 1624
 Salora 0000
 Samsung 0000, 0144, 1060,
 0003, 0023, 0040,
 0070, 1666
 Satbox 0375

Scientific Atlanta 0877, 1877, 0477,
 0237, 0000, 0003,
 0277, 0008, 0012,
 0017, 0021, 0025,
 1510
 Sigma 0019
 Signal 0011, 0015, 0040
 Signature 0011
 SL Marx 0040
 Sony..... 1006, 1460
 Sprucer 0144, 0021
 Starcom 0014, 0003, 0015
 Stargate 0014, 0015, 0040,
 0797
 StarHub..... 0276, 1927
 Starquest 0015
 Storm 0637
 Suena Madritel 1230
 Sumitomo 1500, 1503, 1504
 Supercable..... 0276
 Supermax 0883
 Tadiran 0040
 Tele+1 0443
 Teleavia 0040
 Telenet 1920
 Telepiu..... 0443
 Teletronik..... 1522
 Teleview 0040
 Telewest..... 1068
 Telsey 1630
 Thomson..... 1256, 1110, 1582
 Time Warner cbl 1877
 Timeless..... 0040, 0418
 Tocom 0019, 0012, 0013
 Torx 0003
 Toshiba 0000, 1509
 Trans PX..... 0276, 0153, 0315
 TransACT 1106, 1386
 Tristar 0883

TS..... 0003, 0024
 Tusa..... 0015
 TV Comm 0019
 TV86 0040
 Unika 0153
 United Artists .. 0007, 0024
 United Cable 0014, 0276, 0003,
 0011
 Universal 0153, 0315
 UPC..... 1582
 US Electronics . 0276, 0003, 0008,
 0017
 V2 0883
 Videoway..... 0000
 Viewmaster..... 0883
 Viewstar..... 0060
 Vision 0883
 Visiopass 0817
 Vortex View 0883
 Zenith 0000, 0525, 0899,
 0008, 0015, 0017,
 0060, 0153, 0315
 Zentek 0400

SAT

@sat 1300, 1831
 @Sky 1334
 ABSat 0713
 ADB..... 0642, 0887, 0241,
 1259, 1367, 1418,
 1473, 1491
 Aiwa 1514, 1515
 Akai 0200
 Alba 0455, 0713, 1284,
 1659, 1811
 Allsat 0200, 0364, 1017

| | | | | | | | |
|-----------------|---|----------------------|---------------------------------------|-------------------|---------------------------------------|------------------|---|
| Allsonic..... | 0369 | Axis..... | 1111, 0369 | CityCom..... | 0299, 0607, 0818, 1075, 1176, 1232 | DiPro | 1367, 1543 |
| Alltech | 0713 | B@ytronic | 1412 | Classic | 1672 | DirecTV..... | 1377, 0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 0724, 0819, 1856, 1076, 1108, 0099, 1109, 1392, 1414, 1442, 1443, 1444, 1609, 1640 |
| Allvision | 1232, 1334, 1412 | Bauckhage | 1331 | Clatronic | 0332, 1413 | Discoverer | 0605 |
| AlphaStar | 0772 | Beko | 0455 | Clemens Kamphus | 0396 | Dish Network Sys | 1505, 1005, 0775, 1170, 1775 |
| Amitronica..... | 0713 | Bell ExpressVu . | 0775 | CNS | 1367 | Dishpro..... | 1505, 1005, 0775, 1775 |
| Ampere | 0132, 0396 | Bentley Walker . | 1017 | Cobra | 0396 | Distratel | 0885, 1283, 1704 |
| Amstrad..... | 0847, 1175, 0132, 0338, 0396, 0713, 0885, 1113, 1693, 1801 | Best | 0369 | Colombia..... | 0132 | DMT..... | 1075 |
| Anglo | 0713 | Big Sat..... | 1457 | Columbia..... | 0132 | DNT | 0200, 0396 |
| Ankaro | 0369, 0713, 1279 | Black Diamond . | 1284 | Comag | 0132, 1232, 1366, 1412, 1413, 1579 | Dream Multimedia | 1237 |
| AntSat | 1017, 1083 | Blaupunkt | 0173 | Condor | 0369, 0607 | DSE | 1375 |
| Apollo | 0455 | Blue Sky | 0713 | Connexions..... | 0369, 0396 | DSTV | 0879, 0642, 1433 |
| Arcon | 0332, 1075, 1279 | Blue Star | 1279 | Conrad | 0132, 0369, 0607 | Dune..... | 0369 |
| Arcus | 1143 | Boca | 0132, 0713, 1232, 1366 | Coship | 1457 | Durabrand | 1284 |
| Arion | 1115 | Bose | 1616 | Crossdigital..... | 1109 | DX Antenna | 1530 |
| Armstrong | 0200 | Boston | 1251 | Crown | 1284 | Echostar | 1505, 1005, 0775, 0853, 0167, 0610, 1200, 1775, 1767, 1473, 1418, 1409, 1323, 1170, 0713, 0455, 0396 |
| Arnion | 1300 | Brainwave | 0332, 0658, 1294, 1672 | Cryptovision..... | 0455 | Einhell..... | 0132, 0713 |
| Asat..... | 0200 | British Sky Bcasting | 0847, 1175, 1656, 1662 | Cyfra+ | 1076 | Elap | 0713, 1129, 1567 |
| ASCI..... | 0114, 1334 | Broco | 0713 | Cyrus | 0200 | Electron | 1279 |
| ASLF | 0713 | BskyB | 0847, 1175, 1662 | D-box | 0723, 1114 | Elsat | 0713 |
| AssCom | 0853 | BT..... | 1296 | Daeryung..... | 0396 | Elta | 0200, 0364, 0369, 1659 |
| AST | 0321 | Bubu Sat..... | 0713 | Daewoo | 1111, 0713, 1296, 1743 | Emme Esse | 0369 |
| Aston | 1129, 1261 | Bush | 1284, 1471, 1645, 1672, 1743, 1811 | Deltasat..... | 1075 | Energy Sistem .. | 1631 |
| Astra | 0607, 0713 | Canal | 0853 | Dgtec | 1242, 1542, 1631 | Engel | 0713, 1017, 1251 |
| Astratec..... | 1743 | Canal Digital | 0853, 1622, 1780 | Digatron | 1294 | EP Sat | 0455 |
| Astro | 0173, 0369, 0607, 0658, 1099, 1100, 1113 | Canal Satellite .. | 0853, 0292, 1339, 1853 | Digenius | 0299, 1161 | Esat | 0879 |
| Atsat | 1300, 1831 | Canal+ | 0853 | Digitality | 0607 | Eurieult | 0885 |
| AtSky | 1334 | Centrex | 1457 | Digifusion | 1645, 1743 | | |
| Audioline | 1672 | Century..... | 0856 | DigiLogic | 1284 | | |
| Audioton..... | 0364 | CGV | 1413 | DigiQuest | 1300, 1457, 1473 | | |
| Aurora | 0879, 0642, 1433 | Chaparral | 0216 | DigiSat | 1232 | | |
| Austar | 0879, 0642, 0494, 1176, 1259 | Chess | 0114, 0713, 1334, 1626 | Digisky | 1457 | | |
| Avalon | 0396 | Chili | 1718 | DigitAll World .. | 1227 | | |
| Axil | 1457, 1659 | | | Digiturk..... | 1076 | | |
| | | | | Digiwave | 1631 | | |
| | | | | Dijam | 1296 | | |

Eurocrypt 0455
 EuroLine 1251
 Europa 0607
 Europhon 0132, 0299, 0607
 Eurosky 0132, 0114, 0299, 0369, 0607
 Eurostar 0607, 0818
 Eutelsat 0713
 Expressvu 0775, 1775
 Eycos 1279
 Fagor 0364
 Fenner 0369, 0605, 0713
 Ferguson 0711, 0455, 1291, 1743
 Finepass 1593, 1780
 Finlandia 0455
 Finlux 0455
 Flair Mate 0713
 FMD 0114, 1251, 1413, 1457
 Fortec Star 1017, 1083
 Foxtel 0879, 0720, 0455, 1176, 1356
 Fracarro 0125
 Freecom 0335
 Fresat 0885
 FTEmaximal 0369, 0713
 Fuba 0173, 0299, 0369, 0396, 1161, 1214, 1251, 1801
 Fugionkyo 0125
 Funai 1377, 0338
 Galaxis 0853, 1111, 0879, 0364, 0369, 1557
 Galaxisat 0321
 Gardiner 0818
 Garnet 1075
 GbSAT 1214
 GE 0392, 0566

Gecco 1412
 General Instr. ... 0869
 General Satellite 1176
 Globo 1251, 1334, 1412, 1429, 1626
 GOD Digital 0200
 GOI 0775, 1775
 Gold Box 0853, 0292
 Gold Vision 1017, 1631
 Golden Interstar 1283
 GoldStar 0335
 Goodmans 0455, 1246, 1284, 1291
 Gradiente 0856, 0099, 0887
 Granada 0455
 Grothusen 0335
 Grundig 0847, 0853, 0173, 0879, 1291
 Haensel & Gretel 0132
 Handan 1622, 1780
 Hanseatic 0605, 1099, 1100
 Hantor 0332
 Hauppauge 1294, 1672
 HB 1214, 1801
 HDT 1159
 HE@D 1279
 Heliocom 0607
 Helium 0607
 Hills 1232
 Hirschmann 1111, 0173, 0125, 0299, 0369, 0396, 0607, 1232, 1412
 Hisawa 0332
 Hisense 1535
 Hitachi 0749, 0819, 0214, 0455, 0489, 0491, 1250, 1284, 1518, 1523, 1525
 HNE 0132

Homecast 1214, 1680
 Hornet 1300
 Houston 0775, 0396
 HTS 0775, 1775
 Hughes Net Sys 1142, 0749, 1749, 1442, 1443, 1444
 Humax 1176, 1427, 1670, 1675, 1743, 1790, 1882, 1915
 Hung Chang 0732
 Huth 0132, 0332, 0335, 0364, 0607, 1017, 1075, 1143
 Hwalin 0885
 Hyundai 1075, 1159
 iCan 1367
 ID Digital 1176
 IEEC 0605
 ILLUSION sat... 1557, 1631
 iLo 1535
 Imperial 1334, 1429, 1672
 Indovision 0887
 Ingelen 0114, 0396
 Innova 0099
 International 0132
 Interstar 1017, 1214
 Intervision 0364, 0607
 Irradio 1331
 ISkyB 0887
 ITT Nokia 0723, 0455
 Jadeworld 0642
 Jaeger 1334
 Jerrold 0869
 JiWon 0364
 Johansson 0332, 0364
 Jolly 0364
 JSR 0364

JVC 0775, 0492, 1170, 1507, 1531, 1532, 1775
 K-SAT 0713
 Kamm 0713
 Kaon 1300, 1583
 KaTelco 1111
 Kathrein 0173, 0200, 0114, 0480, 0504, 0553, 0658, 0713, 0818, 1416, 1561, 1567, 1706, 1707, 1709
 Kennex 0125
 Kenwood 0853
 Key West 0132
 Kiton 0114
 Konig 0607
 Kosmos 0335
 Kreatel 1385
 Kreiling 0114, 0658
 Kreiselmeier 0173
 L&S Electronic . 0132, 0369, 1334
 Labgear 1296
 LaSAT 0173, 0132, 0299, 0369, 0607
 Lava 1631
 Legend 1718
 Legrand 1718
 Lemon 1334
 Lenco 0335, 0369, 0607, 0713
 Lennox 0369
 Lenoxx 1611
 LG 0335, 1075, 1226, 1414
 Lifesat 0132, 0299, 0369, 0605, 0713
 Lodos 1284
 Logik 1284
 Logix 1017, 1075

| | | | | | | | |
|-------------------|---|-------------------|--|-------------------|---|------------------|--|
| Lorenzen | 0132, 0299, 0607, 1161, 1294, 1579 | Microtec..... | 0713 | Optex | 0114, 0364, 0713, 1283, 1611 | Pioneer | 1142, 0853, 0292, 0329, 0352, 1308, 1442 |
| Lorraine | 0335 | Mitsubishi | 0749, 0455, 0491 | Optimus | 0724 | Planet | 0396 |
| Lupus | 0369 | Morgan's..... | 0200, 0132, 0364, 0713, 1232, 1412 | Optus | 0879, 1143 | PMB | 0713, 1611 |
| M Electronic | 0818 | Motorola | 0869, 0856, 1473 | Orbis | 1232, 1334, 1412 | Polytron | 0396 |
| M vision..... | 1557 | MTEC..... | 1214 | Orbitech | 0114, 1099, 1100 | Portland..... | 1296 |
| M&B | 0605 | Multibroadcast . | 0879, 0642 | P/Sat | 1232 | Power Sky | 1279 |
| Magnavox | 0724, 0722 | Multichoice | 0879, 0642, 1433, 1559, 1560 | Pace..... | 0847, 0853, 0200, 0887, 0720, 1175, 0791, 0455, 0329, 0241, 1323, 1356, 1423, 1623, 1693, 1717, 1848, 1850 | Predki | 0332 |
| Manata | 0132, 0713 | Muratto | 0321, 0335 | | | Preisner | 0132, 0396, 1113, 1366 |
| Manhattan | 0332, 0364, 0455, 1017, 1083 | Mx Onda..... | 1659 | | | Premier..... | 0853, 0723, 0292, 1429 |
| Marantz | 0200 | Myryad | 0200 | Pacific | 1284, 1375 | Primacom | 1111 |
| Maspro | 0173, 0713, 1520, 1530 | Mysat | 0713 | Packard Bell..... | 1111 | Primestar | 0869 |
| Matsui | 0173, 0332, 1284, 1743 | MySky | 1693, 1848, 1850 | Palcom | 0299, 1161, 1331, 1409 | Promax | 0455 |
| Matsushita..... | 0214, 0340, 0500 | Navex | 0332 | Palladium | 0396 | Proscan | 0392, 0566 |
| Max | 0607 | NEC | 0496, 1270, 1519, 1617 | Panarex | 1159 | Proton | 1535 |
| Maximum | 1075, 1334 | NEOTION..... | 1334 | Panasat | 0879, 1433 | QNS..... | 1367, 1404 |
| McIntosh | 0869 | Netgem | 1322 | Panasonic | 0247, 0701, 0847, 0214, 0340, 0455, 0500, 1304, 1404, 1508, 1526, 1527, 1528 | Quadral..... | 0369 |
| Mediabox | 0853, 0292 | Netsat | 0099, 0887 | Panda | 0173, 0455, 0607 | Quali-TV | 1955 |
| Mediacom | 1206 | Neuf TV..... | 1322 | Pansat | 1159, 1807 | Quelle | 0299, 0607 |
| MediaSat | 0853, 0292 | Neuhaus | 0607, 0713 | Patriot | 0132 | Radiola | 0200 |
| Medion | 0132, 0299, 0369, 0713, 1075, 1161, 1232, 1334, 1412, 1626 | Neuling | 0132, 1232 | Paysat | 0724 | RadioShack..... | 0566, 0775, 0869 |
| Medison | 0713 | Neusat | 0713, 1279, 1331 | peeKTon..... | 1457 | Radix | 0396, 1113, 1317 |
| Mega | 0200 | Neveling..... | 1161 | Philips | 1142, 0749, 1749, 0775, 0724, 0819, 0856, 1076, 0722, 0099, 0847, 0853, 0173, 0200, 1114, 0887, 0292, 0818, 0455, 0133, 1442, 1543, 1672 | RCA..... | 0392, 0566, 1142, 0775, 0855, 0143, 1291, 1392, 1442 |
| Memorex | 0724 | Nevir | 1659 | | | Rebox | 1214 |
| Metronic | 0132, 0713, 0818, 0885, 1279, 1283, 1334, 1375, 1704 | Newton | 0396 | | | Redstar..... | 0369 |
| Metz | 0173 | Next Level..... | 0869 | | | Regal | 1251 |
| MiCO | 1811 | NextWave | 0732, 1017, 1143 | | | RFT..... | 0200 |
| Micro | 0607, 0713, 1294 | Nikko | 0723, 0200, 0713 | | | Roadstar..... | 0853, 0713 |
| Micro Elektronik | 0713 | Noda Electronic | 0885, 1704 | | | Rollmaster | 1413 |
| Micro Technology | 0713 | Nokia | 0853, 0723, 0455, 1023, 1223, 1311, 1723 | | | Rover | 0369, 0713 |
| Micromaxx | 0299, 0369 | Nordmende | 0455, 1611 | | | Rownsonic | 1567 |
| Microstar | 1075 | Novis | 0332 | Phonotrend | 1200, 0364, 1017 | S-ZWO | 1207 |
| | | OctalTV..... | 1505, 1294 | Pilotime | 1339 | SAB | 1251 |
| | | Omega | 0887 | Pino..... | 1334 | Saba | 0820, 0607, 0885 |
| | | Opentel..... | 1232, 1412 | | | | |

Turnsat 0713
 Twinner 0713, 1611, 1742
 UEC 0879, 1356
 UltimateTV 1392, 1640
 Uniden 0724, 0722, 1521
 Unisat 0200, 0132
 United 1251
 Unitor 0332
 Universum 0173, 0114, 0299,
 0607, 1099, 1251
 US Digital 1535
 USDTV 1535
 Van Hunen 1161
 Variosat 0173
 Vega 0369
 Ventana 0200
 Versatel 1795
 Vestel 0114, 1251
 VH Sat 0299
 Viasat 1682
 Victor 0492
 Vidtech 0321
 ViewSat 1232
 Visionic 0125, 1279, 1283
 VisionNet 1557
 Visiosat 0114, 0713, 1129,
 1413, 1457, 1718,
 1742, 1807
 Viva 0856
 Voom 0869
 VTech 0321, 0818
 Wavelength 1232, 1413
 Wetekom 0605
 Wewa 0455
 Wharfedale 1284
 Winbox 1801
 Winersat 0332
 Wintel 0299, 1161

Wisi 0173, 0132, 0299,
 0321, 0396, 0455,
 0607
 World 0332
 Worldsat 0114, 1214, 1251,
 1543
 XMS 1075
 Xoro 1807
 Xrypton 0369
 Xsat 0847, 0713, 1214,
 1323
 Xtreme 1300
 Yakumo 1413
 Yamada 1718
 Yes 0887
 Zehnder 0114, 0321, 0369,
 0504, 0818, 1075,
 1232, 1251, 1616
 Zenith 0856, 1856
 Zeta Technology 0200
 Zodiac 0396, 1801

CD/DVD

RCA 0522
 Sharp 0037
 Sony 0878, 1033
 Universum 0053

DVD

3D LAB 0503, 0539
 4Kus 1158
 A-Trend 0714
 Accurian 1072, 1416

Acoustic Solutions 0730, 0713, 1228,
 1242, 1316
 Adcom 1094
 Advent 1016
 AEG 0770, 0790, 0788
 AFK 1051, 1152
 Afreedy 0698
 Aim 0672, 0699, 0778,
 0833, 1165, 1177
 Airis 0672, 0826, 1005,
 1107, 1224, 1321,
 1345
 Aiwa 0533, 0641
 Akai 0770, 0695, 0790,
 0690, 0705, 0716,
 0766, 0779, 0788,
 0884, 0898, 0899,
 1089, 1115, 1233
 Akashi 0838
 AKI 1005
 Akira 0699, 1321
 Akura 0898, 1051, 1140,
 1171, 1233, 1367
 Alba 0672, 0539, 0717,
 0695, 0730, 0699,
 0713, 0783, 0884,
 1140, 1530, 1610
 Albatros 1001
 Alco 0790
 Alize 1151
 All-Tel 0835, 1451
 Allegro 0869
 Altacom 1224
 Amisos 0782
 Amitech 0784, 0770, 0850
 Amoi 0852
 Amoisonic 0835
 Amphion Media Works 0872, 1245
 Amstrad 0770, 0713, 1151,
 1173, 1367, 1407

Amuseer 1351
 AMW 0872, 1245
 Ansonic 0831, 0759, 1316,
 1351
 Apex Digital 0533, 0672, 0717,
 0755, 0794, 0796,
 0797, 0830, 1004,
 1020, 1056, 1061,
 1100, 1126
 Aria 0893
 Arianet 0818, 0893
 Aristona 0539, 0646
 Arrgo 1023
 Asono 1224
 Aspire Digital ... 1168, 1407
 Astar 1489
 Atacom 1224
 Audiologic 0736
 Audiosonic 0690, 1265
 Audiovox 0717, 0790, 1041,
 1071, 1072, 1121,
 1122
 Audioworld 0790
 Autovox 0713
 Auvio 0843
 Aviovis 1165
 Awa 0730, 0872
 Axion 0730, 1071, 1072,
 1193
 B & K 0655, 0662
 Bang & Olufsen 1696
 Base 1451
 Basic Line 0713
 Baze 0898, 1165
 BBK 0862, 1224
 Beep 1163
 Bel Canto Design 1571
 Bellagio 1004, 1245
 Belson 1086

| | | | | | | | |
|-------------------|---|-------------------|---|-----------------|---|-------------------|--|
| Best Buy | 1089 | Centrum..... | 0713, 0779, 0789, 1005, 1227 | | 1117, 1129, 1173, 1502, 1537 | digiRED | 0717 |
| Black Diamond. | 0713, 0766, 0833, 0884 | CGV..... | 0751, 1115 | Cydectin..... | 1074 | Digital i | 0893 |
| Blaupunkt | 0717 | Changhong | 0627, 1061 | Cytron | 0651, 0705, 0716, 1347 | DigitalMax | 1738 |
| Blu:sens | 1233, 1321, 1489 | Cinea | 0831, 0841 | D-Link | 1881 | Digitor..... | 0651, 0690, 0833, 1005, 1423 |
| Blue Nova Intn . | 1321 | Cinego | 1399 | D-Vision | 1115, 1367 | Digitrex | 0672, 1004, 1056, 1100 |
| Blue Parade | 0571 | Cineral | 0730 | Daenyx | 0872 | Digix Media | 0826 |
| Blue Sky..... | 0672, 0651, 0695, 0790, 0699, 0713, 0778, 0804, 0843, 1423 | Cinetec..... | 0713, 0872 | Daewoo | 0490, 0784, 0770, 1483, 1443, 1441, 1436, 1242, 1234, 1172, 1169, 1072, 0872, 0869, 0833, 0714, 0705 | DiK | 0831 |
| Boghe | 1004 | cineULTRA | 0699 | | | Dinamic | 0788 |
| Boman | 0783, 0898, 1005 | CineVision..... | 0876, 0833, 0869, 1483 | Dalton | 1036, 1107 | Disney | 0831, 0675, 1270 |
| Bose..... | 2023 | Citizen | 1003, 0695, 1277 | Dansai | 0770, 0783, 1115 | DiViDo | 0705 |
| Brainwave | 0770, 1115 | Clairtone | 0571 | Dantax | 0539, 0790, 0713, 0723, 1089 | DK Digital | 0831 |
| Brandt | 0503, 0651, 0551 | Classic..... | 0730, 1730 | Daytek | 0872, 1005 | DMTech | 0783, 1072 |
| Broksonic | 0695, 0868, 1419 | Clatronic | 0672, 0675, 0788, 0818, 1165, 1177, 1233 | Dayton..... | 0872 | Dragon | 0831 |
| Buffalo..... | 1882 | Clayton..... | 0713 | DCE..... | 0831 | DreamX | 1151 |
| Bush..... | 0672, 0717, 0730, 0831, 1483, 1436, 1419, 1351, 1177, 1165, 1140, 1128, 1051, 0884, 0879, 0833, 0778, 0758, 0723, 0713, 0699, 0690, 0516 | Coby..... | 0730, 0778, 0852, 1077, 1086, 1107, 1165, 1177, 1321, 1351 | Decca | 0778, 0818 | DSE | 0833, 1152, 1483, 1730 |
| Byd:sign | 0872 | Codex | 1233 | Denon | 0490, 0634, 1282, 1634 | DTS | 0799 |
| C-Tech | 0798, 1152 | Commax | 1321 | Denver | 0672, 0699, 0778, 0788, 0898, 1056, 1104, 1107, 1165, 1177, 1265, 1316, 1321 | Dual..... | 0651, 0730, 0831, 0790, 0665, 0675, 0713, 0779, 0783, 1023, 1068, 1085, 1436 |
| Calif Aud Labs.. | 0490 | Compacts..... | 0826, 1107, 1265 | | | | |
| Cambridge Aud | 0751, 1109, 1589 | Conia | 0672, 0516, 0835, 0852, 1321 | Denzel | 0665 | Durabrand | 1003, 0831, 0713, 1023, 1127, 1502 |
| Cambge Sndwks | 0690 | Contel | 0788 | Desay | 0800, 0843, 1407, 1455 | DVD2000 | 0521 |
| Campomatic Dig. | 1051 | Continental Ed. | 0831, 0872 | Dgtec | 0672 | DVX | 0768 |
| Cary Audio Des | 1477 | Craig | 0831 | Diamond | 0651, 0768, 0790, 0751, 0778 | E:max | 1233, 1321 |
| Cat | 0699, 0789, 1421 | Creative | 0503, 0539 | Diamond Vision | 1316, 1609, 1610 | EagleTec..... | 0714 |
| CAVS..... | 1057 | CrossWood | 1446 | Dick Smith Elec | 0833, 1152, 1483, 1730 | eBench | 1152 |
| CCE..... | 0730 | Crown | 0770, 0690, 0713, 0769, 1115 | Digihome..... | 0713 | ECC..... | 0730 |
| Celestial | 1020 | Crypto | 1228 | DigiLogic | 0713 | Eclipse..... | 0723, 0751 |
| cello | 1730 | Curtis Mathes ... | 1087 | | | Electrohome..... | 1003, 0893 |
| Centrex | 0672, 1004 | Cybercom..... | 0831 | | | Elfunk | 0713, 0850, 0884 |
| Centrios..... | 1577 | CyberHome | 0714, 0816, 0874, 1017, 1023, 1024, | | | Elin | 0770 |

| | | | | | | | |
|-------------------|---|-----------------|---|------------------|---|-------------------|--|
| | 1115, 1151, 1173, 1233 | GoldStar | 0591, 0741, 0801, 0869 | Hoehner | 0651, 0831, 0713, 0826, 1004, 1224 | Kansas Tech. | 1233, 1530 |
| Eltax | 0766, 1233, 1321 | Goodmans..... | 0651, 0730, 0790, 0690, 0713, 0723, 0783, 0833, 0879, 1004, 1140, 1177, 1316, 1423, 1530, 1730 | Home Elec. | 0770, 0730 | Karcher..... | 0783 |
| Emerson..... | 0591, 0675, 0705, 0821, 1268 | | | Home Tech Indus. | 1107, 1224 | Kawasaki..... | 0790 |
| Encore | 0698 | GP Audio | 1140 | Hoyo | 0665 | Kendo | 0672, 0831, 0699, 0713 |
| ENTERprise..... | 0591 | GPX | 0741, 0699, 0769 | Humax | 0646, 1588 | Kennex | 0770, 0713, 0898 |
| Entivo | 0503, 0539 | Gradiente | 0490, 0651 | Hyundai..... | 0766, 0783, 0850, 1061, 1228 | Kenwood..... | 0490, 0534, 0682, 0737, 1063 |
| Enzer | 0784, 0770, 0766, 1228 | Graetz | 0665 | I-O Data | 1405 | Kiiri | 0770 |
| ESA | 0821, 1268, 1443 | Gran Prix | 0831, 0898 | iLo | 1348, 1472 | King DHome..... | 0799 |
| EuroLine..... | 0675, 0788, 1115, 1233, 1351 | Grandin..... | 0713, 0716, 1173, 1233 | Ingelen | 0788 | Kingavon | 0818 |
| Fenner | 0651 | Greenhill | 0717 | Ingersol | 1023 | Kiss..... | 0665, 0841, 1523 |
| Ferguson | 0651, 0695, 0713, 0884, 0898, 1730 | Grundig..... | 0539, 0651, 0551, 0695, 0790, 0670, 0705, 0713, 0775, 1004, 1036, 1128, 1177, 1436, 1730 | Initial..... | 0839, 0717, 1472 | KLH | 0815, 0717, 0790, 1020, 1149, 1261 |
| Finlux | 0672, 0591, 0741, 0770, 0751, 0783, 1165 | | | Inno Hit | 0713 | Kloss | 0533 |
| Fintec | 1169 | Grunkel | 0770, 0831, 0790, 1316 | Innovative Tech. | 1542 | Koda..... | 1230 |
| Firstline | 0651, 0713, 0799, 0843, 0869, 1530 | GVG..... | 1169 | Insignia..... | 1013, 1268 | Konka | 0711, 0719, 0720, 0721 |
| Fisher | 0670 | H & B | 0713, 0818, 0841, 0850, 1233, 1421 | Integra..... | 0571, 0627, 1634 | Konka | 0711, 0719, 0720, 0721 |
| Funai | 0695, 0675, 1268, 1334 | Haaz | 0751, 1152 | Irradio..... | 0869, 1115, 1224, 1233 | Koss | 0651, 0769, 0896, 1061, 1423 |
| Fusion | 0862 | Haier | 0843 | IRT..... | 0783, 1489 | Kreisen | 1421 |
| Gateway..... | 1073, 1077, 1158, 1194 | Hanseatic | 0741, 0790, 0783 | ISP | 0695 | KXD | 0857, 1321 |
| GE | 0522, 0815, 0717 | Harman/Kardon | 0582, 0702 | Jamo | 1036 | Landel | 0826 |
| General Electric | 0717 | HCM | 0788 | Jaton | 0665, 1078 | Lasonic..... | 0627, 0798, 0789, 1173 |
| Germatic | 1051 | HDT | 0705 | Jay-tech..... | 1265 | Lawson | 0768, 0716 |
| Global Link | 1224 | HE..... | 0730, 1163 | JBL..... | 0702 | Lecson | 1533 |
| Global Solutions | 0768 | Helios | 2080 | JDB | 0730 | Leiker | 0872 |
| Global Sphere .. | 1152 | Henss | 0713 | JDV | 1367 | Lenco | 0651, 0770, 0699, 0713, 0778, 1165, 1177 |
| Go Video | 0573, 0744, 0717, 0741, 1730, 1483, 1443, 1304, 1158, 1144, 1099, 1075, 1044, 0869, 0833, 0783, 0715 | Himage | 1089 | Jeken | 0699 | Lenoir | 1228 |
| Go Vision | 1071, 1072 | HiMAX | 0843 | Jensen | 1016 | Lenoxx | 0690, 0838, 1127 |
| | | Hitachi | 0573, 0664, 0695, 0665, 0713, 0857, 1247, 1664 | Jeutech | 0766 | Lexia | 0768, 0699 |
| | | Hiteker | 0672 | JMB..... | 0695 | LG..... | 0591, 0741, 0790, 0801, 0869, 1526 |
| | | | | JNC..... | 0672 | Lifetec..... | 0651, 0831, 1347 |
| | | | | JSI..... | 1423 | Limit | 0768, 0716, 1104 |
| | | | | JVC | 0503, 0539, 0558, 0623, 0867, 1164, 1241, 1275, 1597, 1602 | LiteOn | 1058, 1158, 1416, 1440, 1656, 1738 |
| | | | | jWin | 1049, 1051 | | |
| | | | | Kansai | 1107 | | |

| | | | | | | |
|-----------------|-------------------|-------------------|-----------------|-------------------|--------------------|-------------------|
| Lodos | 0713 | 0783, 0879, 1006, | Neufunk | 0665 | Packard Bell | 0831 |
| Loewe | 0539, 0741, 0511, | 1107, 1165, 1270, | NeuNeo | 0509, 1454 | Palladium | 0695, 0713, 0779 |
| | 0885 | 1345, 1347, 1423 | Nevir | 0770, 0831, 1197 | Palsonic..... | 0672, 0835, 0852, |
| Logik | 0713, 0884 | MEI | Next Base | 0826 | | 1056, 1321 |
| Logix | 0705, 0783 | Memorex | NexxTech | 1402 | Panasonic | 0503, 0490, 0571, |
| Luker | 1367 | | NFREN | 0826 | | 0632, 0703, 1010, |
| Lumatron..... | 0741, 0695, 0705, | Metronic | Nikenny..... | 1089 | | 1011, 1282, 1362, |
| | 0713, 0833, 1115, | 0690 | Nintaus..... | 1051 | | 1462, 1490, 1579, |
| | 1321 | Metz..... | Norcent..... | 1003, 0719, 0872, | Panda | 1762, 1641 |
| Lunatron..... | 0741 | Micromedia..... | | 1107, 1265, 1457 | | 0717, 0789 |
| Luxman | 0573 | Micromega | Nordmende | 0831, 1316 | Paramount Picts | 0779 |
| Luxor | 0713, 1004, 1730 | 0539, 1005 | Noriko | 0752 | peeKTon | 0898, 1224 |
| Magnasonic | 0651, 0675, 0769 | Microsoft | Nowa..... | 0843 | Philco | 0790, 0690, 0788, |
| Magnavox | 0503, 0539, 0646, | 0522, 1708, 2083 | Nu-Tec | 0516, 1228 | | 0862 |
| | 0675, 0713, 0821, | Microstar | Okano | 0752 | Philips..... | 0503, 0539, 0646, |
| | 0885, 1140, 1177, | 0831 | Olidata | 0672 | | 0675, 0854, 0885, |
| | 1268, 1472, 1506 | Minato | Omni | 0690, 0698, 0778, | | 1158, 1260, 1267, |
| Magnex | 0723, 1165, 1489 | Minax | | 0782, 0833, 0838, | | 1340, 1354, 1506, |
| Magnum | 1436 | Minerva..... | | 0862, 1104 | | 1755, 2056 |
| Majestic..... | 1107, 1345 | Minoka | Onix | 0838 | Philo | 1345 |
| Malata | 0782, 1159 | Minowa | Onkyo | 0503, 0627, 0792, | Phonotrend | 0699, 1165, 1177 |
| Manhattan | 0705, 0713 | Mintek | | 1417, 1418, 1612, | PianoDisc | 1024 |
| Marantz | 0503, 0539, 0675, | Mirror | | 1627 | Pioneer | 0490, 0525, 0571, |
| | 1627 | Mitsubishi..... | Oopla | 1158 | | 0142, 0631, 0632, |
| Mark | 0713 | 1521, 0521, 0713, | | 1224, 1525 | | 0638, 1460, 1531, |
| Marquant..... | 0770 | 1403 | Oppo..... | 0843 | | 1571, 1900 |
| Matsui | 0672, 0651, 0695, | Mizuda | Optim | 0525, 0571 | Playgo | 1265 |
| | 0713, 0884, 1004, | 1451 | Optimus | 0896 | Plu2 | 0850 |
| | 1316, 1730 | Momitsu | OptoMedia Elec. | 0818 | Pointer..... | 0784 |
| Maxdorf..... | 0788 | 1082 | | 0818 | Polaroid..... | 1020, 1061, 1086, |
| Maxent | 1347 | Monyka | Orava | 0872 | | 1245, 1316, 1478, |
| Maxim | 0713, 0872, 1242, | MPX..... | Orbit | 0872 | | 1480, 1482 |
| | 1367 | 0843 | Orion | 0695, 1128, 1233, | Polk Audio..... | 0539 |
| Maya | 1345 | MTlogic..... | | 1419 | Portland..... | 0770 |
| MBO..... | 0730, 0690, 1730 | Mustek | Oritron..... | 0651 | Powerpoint..... | 0758, 0872, 1005 |
| McIntosh..... | 1533, 1273 | 0730, 1730 | Ormond | 0713 | Presidian | 0675, 1072, 1738 |
| MDS..... | 0713, 0778 | Mx Onda..... | Otic | 0826, 1455 | Prima | 0766, 1016, 1228 |
| Mecotek | 0770 | 0651, 0751, 1223 | P&B..... | 0818, 1451 | Prima Elec | 0766 |
| Medion | 0651, 0630, 0831, | Myryad | Pacific | 0695, 0831, 0768, | Primare..... | 1467 |
| | 0652, 0716, 0758, | 0894 | | 0790, 0713, 0759, | Princeton | 0674 |
| | | 0831 | | 0804 | Prinz | 0831 |
| | | Nesa | | | | |
| | | 0717, 1603 | | | | |

| | | | | | | | |
|-----------------|--|------------------------|--|--|--|--|------------------------------|
| Prism | 0831, 0705, 1089 | 1051, 1177, 1227, 1446 | SEG..... | 0798, 0665, 0713, 0763, 0872, 0884, 1173, 1483, 1530 | Sony | 0533, 1533, 0864, 0573, 0630, 1017, 1033, 1069, 1070, 1431, 1432, 1433, 1516, 1536, 1548, 1633 | |
| Pro2..... | 1107, 1345 | Rocksonic | 0789 | Semp..... | 0503 | Sound Color | 1233 |
| ProCaster | 1004 | Ronin | 0710, 0872 | Sensory Science | 1158 | Sound Mobile... | 1298 |
| Proceed | 0672 | Rotel | 0558, 0623, 1178 | Shanghai..... | 0672 | Soundmaster.... | 0768 |
| Proline | 0672, 0651, 0710, 0833, 1004, 1068, 1483 | Rowa | 0717, 0516, 0759, 0823, 0872, 1004 | Sharp | 0630, 0675, 0713, 0752, 1256, 1419, 1642 | Soundmax | 0768 |
| Proscan | 0522 | Rownsonic | 0789 | Sharper Image . | 1117 | Soundwave | 0783 |
| Proson | 0713 | S&V..... | 1165 | Sherwood..... | 0717, 0741, 0770, 0633, 1043, 1077 | Sova | 1122 |
| Prosonic | 0699, 0752, 1169, 1441 | Saba | 0651, 0551, 0769 | Shinco | 0717, 1472 | Spectra..... | 0872 |
| ProVision | 0730, 0699, 0778, 1107, 1163, 1321 | Saivod | 0831, 0759, 1367 | Shinsonic | 0533, 0839 | Standard..... | 0651, 0831, 0768, 0788, 0898 |
| Pye | 0539, 0646 | Salora | 0741, 1446 | Siemssen | 1382 | Star Clusters..... | 1152, 1227 |
| QONIX | 1051, 1177 | Sampo | 0698, 0752, 1321, 1347, 1501 | Sigma Designs. | 0674 | Starlogic | 1005 |
| Qwestar..... | 0651 | Samsung | 0490, 0573, 0744, 0199, 0820, 0899, 1044, 1075, 1635 | Sigmatek..... | 1005, 1224 | Starmedia | 0818, 1005, 1224 |
| Radionette..... | 0741, 0869 | Sansui | 0784, 0695, 0768, 0716, 0751, 0763, 1051, 1228, 1230, 1316 | Siltex | 1224 | Stevison..... | 1367 |
| RadioShack..... | 0571 | Santosh | 1115 | Silva | 0788, 0898 | Strong | 0713 |
| Raite | 0665 | Sanyo | 0695, 0670, 0675, 0713, 0873, 1228, 1334 | Silva Schneider | 0831, 0898 | Sungale | 1074, 1532 |
| RCA..... | 0522, 0571, 0717, 0790, 0769, 0822, 1013, 1022, 1132, 1193, 1769 | Santosha | 1115 | SilverCrest..... | 1152 | Sunkai | 0770, 0850 |
| Realistic | 0571 | Scan | 0705, 0835, 0850 | Simaudio..... | 0885 | Sunstech | 0831, 1072 |
| REALmagic | 0674 | ScanMagic | 0730, 1730 | Singer | 0768, 0690, 0716, 0751 | Sunwood | 0788, 0898 |
| REC | 0490, 0766 | Schaub Lorenz . | 0770, 0788, 1115, 1151, 1165 | Sinudyne | 1316 | Superscan | 0821 |
| Recco | 0698 | Schneider | 0539, 0646, 0651, 0831, 0790, 0705, 0713, 0779, 0783, 0788, 0804, 0869, 1367 | Sistemas | 0672 | Supervision..... | 0768, 1152 |
| Redstar..... | 1003, 0770, 0759, 0763, 0788, 0898, 1107, 1345 | Schwaiiger | 0752 | Skantic | 0539, 1003, 0713 | Supratech | 0893 |
| Relisys..... | 1347 | Scientific Labs . | 0768 | Skymaster | 0730, 0768 | SVA..... | 0672, 0717, 0752, 0860, 1105 |
| Reoc..... | 0768, 0752 | Scott | 0672, 0651, 1005, 1036, 1233, 1423 | Skysonic | 0766 | Sylvania..... | 0630, 0675, 0821, 1268 |
| Revoy | 0699, 0841 | Seeltech..... | 1224, 1451 | Skyworth..... | 0766, 0898 | Symphonic | 0675, 0821, 1268, 1334 |
| Rex | 0838 | | | Sliding | 1115 | Synn | 0768 |
| Richmond..... | 1233 | | | Slim Art | 0784 | TAG McLaren.... | 0894 |
| Rio | 0869 | | | SM Electronic... | 0730, 0768, 0690, 1152 | Tandberg | 0713 |
| RJTech | 1360 | | | Smart | 0705, 0713 | Tangent..... | 1321 |
| Roadstar..... | 0672, 0730, 0690, 0699, 0713, 0818, 0833, 0879, 0898, | | | Sonai | 0755 | Targa | 1227 |
| | | | | Sonashi | 0831, 0716 | Tatung | 0770 |
| | | | | Sonic Blue..... | 0573, 0715, 0783, 0869, 1099 | Tchibo | 0741 |

TCM 0741, 0790
 Teac..... 0571, 0717, 0741,
 0768, 0790, 1483,
 1227, 1197, 1165,
 1006, 0833, 0809,
 0759, 0758, 0692,
 0675, 0516
 Tec..... 0898
 Technica..... 1367
 Technics 0490, 0703
 Technika..... 0770, 0831, 1115,
 1165, 1489
 Technissson 1115
 Technosonic..... 0730, 1051, 1115
 Techwood..... 0692, 0713, 1530
 Tedalex..... 0768, 0690, 1004,
 1228
 Telefunken..... 0790, 0758, 0789,
 0833, 1483
 Teletech..... 0768, 0713
 Tensai 0651, 0770, 0690
 Terapin 1031
 Tevion 0651, 0798, 0768,
 0652, 0833, 0898,
 1036, 1227, 1347,
 1382, 1483, 1730
 Theta Digital 0571
 Thomson 0522, 0551, 0511
 Tiny 1489
 Tivo 1503, 1588
 Tokai 0784, 0790, 0665,
 0698, 0788, 0898
 Tokaido..... 0698
 Tokiwa 0716
 Tom-Tec 0789
 Top Suxess 1224
 Toshiba..... 0503, 0573, 0539,
 0695, 1045, 1154,
 1503, 1510, 1588,
 1769
 Trans Continens 0826

TRANS-contr .. 0831, 0826, 0872,
 1165, 1321, 1327
 Transonic 0730, 1165
 Tredex 0799, 0800, 0803,
 0804, 0843
 TruVision 0857, 1451
 TSM..... 1224
 TYT..... 0705
 Umax 0690, 1151
 Unimax 0770
 United 0695, 0730, 1489,
 1446, 1367, 1351,
 1228, 1173, 1165,
 1152, 1115, 1072,
 0884, 0826, 0788,
 0713, 0699, 0675
 Universum 0591, 0741, 0790,
 0713, 0779, 0869,
 1227, 1530
 Uptek 0763
 upXus 1345
 Urban Concepts 0503, 0539
 US Logic..... 0839
 V 1064, 1126, 1226
 Valor 1298
 Venturer 0790
 Vestel 0713, 0884, 1530
 Vialta 1509
 Victor 1241, 1597
 Vieta 0705, 1265
 Viewmaster..... 0862, 1224
 Vizio 1064, 1126, 1226
 Vocopro 1027, 1360
 Voxson 0730, 0831, 0690
 Vtrek 1228
 Waitec 1151, 1224, 1233
 Walkvision 0717
 Waltham 1530
 Welkin 0831
 Wellington..... 0713

Weltstar..... 0713
 Wesder 0699
 Wharfedale..... 0790, 0698, 0751,
 0752
 Wilson 0831, 1233
 Windsor..... 0713
 Windy Sam 0573
 WIZE 1115
 Woxter 1005, 1151, 1224
 Xbox..... 0522, 1708, 2083
 Xenius 0790
 XLogic 0768, 1152, 1228
 XMS 0770, 0788
 Xoro 1173, 1183
 Xwave 1001
 Yakumo 0652, 1004, 1056
 Yamada 0652, 0872, 1004,
 1056, 1151, 1158,
 1416, 1489
 Yamaha 0490, 0539, 0646,
 0545, 1282, 1354
 Yamakawa 0665, 0710, 0872,
 1104, 1489
 Yukai 0730, 1730
 Zenith 0503, 0591, 0741,
 0869
 Zennox 1265
 Zeus..... 0784
 Zoece 1265

VCR

A-Mark 0037, 0240, 0000,
 0278, 0046
 ABS..... 1972
 Accent 0072

Admiral 0060, 0048, 0039,
 0047, 0104, 0121,
 0209, 0020, 0062,
 0065, 0479
 Adventura 0037, 0240, 0000
 Adyson 0072
 Aiko 0278
 Aim 0278, 0348, 0642,
 0020
 Aiwa 0037, 0032, 0000,
 0209, 0041, 0348,
 0307, 0352, 0124,
 0479, 0742, 1137,
 1284, 1291, 1332,
 1336
 Akai 0037, 0240, 0041,
 0348, 0642, 0352,
 0315, 0020, 0053,
 0061, 0175, 0242
 Akiba 0072
 Akitan 0295
 Akura 0041, 0072, 0271
 Alba 0081, 0000, 0209,
 0072, 0278, 0348,
 0352, 0315, 0020,
 0295
 Alienware 1972
 Allegro 0039, 1137
 Allorgan 0240
 Allstar 0081
 Ambassador..... 0020
 America Action 0278
 American High.. 0035, 0081
 Amoisonic 0479
 Amstrad..... 0000, 0072, 0278
 Anam 0162, 0037, 0240,
 0278, 0579, 1037
 Anam National.. 0162, 1562, 0454,
 0579, 1162
 Anitech 0072
 Ansonic 0000

| | | | | | | | |
|-------------------|--|-----------------|---|------------------|---|------------------|---|
| Arion | 1787 | Broksonic | 0184, 0121, 0209, 0002, 0348, 0208, 0211, 0295, 0361, 0479, 1479, 1815 | Crosley..... | 0035, 0081, 0000, 0149, 0110 | Dual..... | 0081, 0000, 0041, 0278, 0348 |
| Aristona..... | 0081 | Bush | 0081, 0000, 0209, 0072, 0278, 0348, 0642, 0352, 0315, 0742 | Crown | 0037, 0072, 0278, 0020, 0271 | Dumont | 0081, 0000, 0104, 0105 |
| ASA..... | 0037, 0081 | Calix | 0037 | Curtis Mathes .. | 0060, 0035, 0162, 0240, 0000, 0041, 0278, 0432, 0277, 0454, 0643, 0760, 1035 | Durabrand | 0039, 0038, 0642, 0593 |
| Asha..... | 0240 | Candle | 0037, 0038 | Cybernex | 0240, 0051 | Dynatech | 0240, 0000 |
| Astra | 0035, 0240, 0051 | Canon | 0035, 0034 | CyberPower..... | 1972 | Elbe | 0278, 0038 |
| Asuka | 0037, 0081, 0000, 0072, 0038 | Capehart..... | 0002, 0020, 0062 | Cyrus | 0081 | Elcatech | 0072 |
| Audio-Technica | 0058 | Carena | 0081, 0209 | Daewoo | 0037, 0045, 0104, 0209, 0278, 0642, 0352, 0020, 0046, 0210, 0212, 0368, 0561, 0844, 1137, 1278 | Electrohome..... | 0060, 0037, 0240, 0000, 0043, 0209, 0061 |
| Audiolab..... | 0081 | Carrefour | 0045 | Dansai | 0072, 0278 | Electroponic ... | 0037 |
| Audiosonic | 0278 | Carrera..... | 0240 | Dantax | 0352 | Elin | 0240, 0051 |
| Audioton..... | 0020 | Carver | 0035, 0081 | Daytron | 0037, 0278, 0020 | Elsay | 0072 |
| Audiovox | 0037, 0278, 0038, 0054 | Casio | 0000 | De Graaf..... | 0048, 0081, 0042, 0104, 0046 | Elta | 0072, 0278 |
| AVA Tech. | 0615 | Cathay | 0278 | Decca | 0081, 0000, 0067, 0209, 0041, 0352, 0008 | Emerald | 0184, 0121, 0211 |
| Avis | 0000, 0072 | Catron | 0020 | Degraff | 0048, 0081, 0042, 0104 | Emerex | 0032 |
| AVP | 0000, 0352 | CCE | 0072, 0278 | Deitron | 0278 | Emerson | 0035, 0037, 0184, 0039, 0240, 0045, 0000, 0121, 0043, 0209, 0072, 0002, 0278, 0348, 0561, 0510, 0593, 0479, 0378, 1278, 1479, 0361, 1593, 0343, 0295, 0294, 0212, 0211, 0208, 0202, 0088, 0068, 0061, 0036 |
| Awa | 0037, 0043, 0278, 0642, 0075, 0579 | Centrum..... | 0593 | Dell..... | 1972 | ESA | 1137 |
| Baird | 0000, 0104, 0041, 0278, 0046 | CGE | 0000, 0041 | Denko | 0072 | ESC | 0240, 0278, 0020 |
| Basic Line | 0104, 0072, 0278, 0020, 0046 | Changhong | 0048, 0081 | Denon | 0081, 0042 | EuroLine | 1593 |
| Beaumarck..... | 0240 | Cimline | 0209, 0072 | Derwent | 0041 | Europhon..... | 0020 |
| Beko..... | 0104 | Cineral | 0278 | Diamant | 0037 | Fenner | 0020 |
| Bell & Howell.... | 0035, 0048, 0039, 0000, 0104, 0046, 0479 | CineVision..... | 1137 | Diamond | 0348 | Ferguson | 0000, 0041, 0278, 0348, 0320, 0053 |
| Bestar | 0278, 0020 | Citizen | 0035, 0037, 0240, 0000, 0209, 0278, 0036, 0479, 1278 | Dick Smith Elec | 0642, 0579 | Fidelity..... | 0240, 0000, 0072, 0352, 0432 |
| Black Diamond. | 0642 | Classic..... | 0037 | Digitor | 0642, 0579 | Finlandia | 0037, 0048, 0081, 0000, 0042, 0104, |
| Black Panther... | 0278 | Clatronic | 0000, 0072, 0020, 1593 | DiracTV | 0739, 2033 | | |
| Blaupunkt | 0162, 0081, 0034, 0227, 0513 | Colortyme | 0060, 0035, 0045, 0278 | Domland | 0209 | | |
| Blue Sky..... | 0037, 0209, 0072, 0278, 0348, 0642, 0352, 0742, 1137 | Combitech | 0352 | DSE..... | 0642, 0579 | | |
| Bondstec..... | 0072, 0020 | Condor | 0278, 0020 | | | | |
| BPL | 0046 | Craig | 0037, 0047, 0240, 0072, 0271 | | | | |
| Brandt | 0041, 0320 | Criterion | 0000, 0072 | | | | |
| Brandt Elec. | 0041 | | | | | | |
| Brinkmann | 0209, 0348 | | | | | | |

| | | | | | | | |
|-----------------------|---|-----------------------|--|----------------------|--|-----------------------|---|
| | 0043, 0384, 0046, 0110 | GoldStar | 0035, 0037, 0039, 0000, 0209, 0278, 0038, 0018, 0054, 0225, 1137, 1237 | Hischito | 0045 | JMB | 0209, 0348, 0352, 0742 |
| Finlux | 0081, 0000, 0042, 0104, 0105 | | | Hitachi | 0035, 0037, 0081, 0240, 0045, 0000, 0042, 0041, 0384, 1326, 1286, 1037, 0593, 0544, 0105, 0089, 0082, 0065, 0046 | Joyce | 0000 |
| Firstline | 0037, 0045, 0042, 0043, 0209, 0072, 0278, 0348, 0088, 1137 | Goodmans | 0037, 0081, 0240, 0000, 0209, 0072, 0278, 0348, 0642, 0352, 0020, 0062, 0343, 0579, 0742 | | | JVC | 0184, 0081, 0045, 0067, 0041, 0384, 1707, 1329, 1299, 1283, 1279, 1162, 0486, 0366, 0207, 0061, 0058, 0008 |
| Fisher | 0039, 0047, 0000, 0104, 0020, 0046, 0054, 0066 | GPX | 0037 | Hoehner | 0278, 0642 | Kaisui | 0072 |
| Flint | 0209, 0348 | Gradiente | 0000, 0008, 1137 | Hornophon | 0081 | Kambrook | 0037 |
| Frontech | 0072, 0020 | Graetz | 0240, 0104, 0041 | Howard Comps | 1972 | Karcher | 0081, 0278, 0642 |
| Fuji | 0035, 0033 | Granada | 0035, 0037, 0048, 0081, 0240, 0000, 0042, 0104, 0011, 0046 | HP | 1972 | Kathrein | 1802, 1868, 1869, 1870 |
| Fujitsu | 0037, 0045, 0000, 0366 | | | Hughes Net Sys | 0042, 0739 | KEC | 0037, 0278 |
| Fujitsu General | 0037 | Grandin | 0037, 0000, 0209, 0072, 0278, 0020, 0742 | Humax | 0739, 1711, 1845, 1853 | Keen | 0693 |
| Funai | 0037, 0000, 0072, 0278, 0294, 0593, 1333, 1593 | Grundig | 0081, 0072, 0348, 0320, 0352, 0034, 0207, 0347, 0378, 0742 | Hush | 1972 | Kendo | 0037, 0209, 0072, 0278, 0348, 0642, 0315, 0053 |
| Galaxi | 0000 | | | Hypson | 0037, 0000, 0209, 0072, 0278, 0352 | Kenwood | 0067, 0041, 0038, 0384, 0046 |
| Galaxis | 0278 | Haaz | 0348 | Hytek | 0047, 0000, 0072, 0036 | KIC | 0000 |
| Garrard | 0000 | Hanimex | 0352, 0295 | iBUYPOWER | 1972 | Kimari | 0047 |
| Gateway | 1972 | Hanseatic | 0037, 0081, 0209, 0038 | Imperial | 0000 | Kimari | 0047 |
| GBC | 0020 | Hantor | 0020 | Ingersol | 0240, 0209 | Kioto | 0348 |
| GE | 0060, 0035, 0048, 0240, 0000, 0149, 0320, 0065, 0077, 0202, 0277, 0760, 0761, 0807, 1035, 1060 | Haojie | 0240 | Inno Hit | 0072, 0020 | KLH | 0072 |
| GEC | 0081 | Harley Davidson | 0000 | Interbuy | 0037, 0072 | Kneissel | 0037, 0209, 0278, 0348, 0352 |
| Gemini | 0060 | Harman/Kardon | 0081, 0038, 0075 | Interfunk | 0081, 0104 | Kodak | 0035, 0037 |
| General | 0045, 0020, 0366 | Harvard | 0072, 0068 | Internal | 0278 | Kolin | 0043, 0041 |
| General Technic | 0348 | Harwood | 0072, 0068 | International | 0037, 0278, 0642 | Kolster | 0209 |
| Genexxa | 0037, 0000, 0104, 0278 | HCM | 0072 | Intervision | 0037, 0000, 0209, 0278, 0348 | Korpel | 0072 |
| Go Video | 0240, 0432, 0232, 0526, 0614, 0643, 1137 | Headquarter | 0046 | Irradio | 0037, 0081, 0072, 1137 | KTV | 0000 |
| GoldHand | 0072 | Hewlett Packard | 1972 | ITT | 0240, 0104, 0041, 0384, 0046, 0378 | Kuba | 0047 |
| | | Hi-Q | 0035, 0047, 0000 | ITT Nokia | 0240, 0104, 0041 | Kuba Electronic | 0047 |
| | | Hinari | 0240, 0209, 0041, 0072, 0278, 0352, 0088, 0208, 0343 | ITV | 0037, 0278, 0020 | Kyoto | 0072 |
| | | Hisawa | 0209, 0352 | Janeil | 0240 | Lenco | 0278 |
| | | | | JBL | 0278 | Leyco | 0072 |
| | | | | Jensen | 0067, 0041 | LG | 0037, 0240, 0045, 0000, 0042, 0209, 0278, 0038, 0051, |

| | | | | | | | |
|-------------------|---|-----------------|--|-------------------|--|-------------------|--|
| | 0053, 0225, 1037, 1137, 1237 | Master's..... | 0278 | | 0642, 1343, 0807, 0443, 0242, 0214, 0173, 0075, 0061 | Nu-Tec | 0209 |
| Lifetec | 0209, 0348 | Matsui | 0037, 0240, 0209, 0278, 0348, 0352, 0036, 0088, 0208, 0295, 0742 | Motorola..... | 0035, 0048 | Oceanic..... | 0048, 0081, 0000, 0104, 0041, 0046 |
| Linksys | 1972 | | | Movie Walker ... | 0072 | Okano | 0209, 0072, 0278, 0348, 0315 |
| Lloyd's | 0240, 0000, 0072, 0038, 0036, 0208 | Matsushita..... | 0035, 0162, 0081, 0227, 0367, 0454, 1162 | MTC | 0240, 0000, 0072 | Olympus..... | 0035, 0162, 0104 |
| Loewe | 1062, 0162, 0037, 0081, 1562, 0105, 0454, 1262 | Media Center PC | 1972 | MTX | 0000 | Onimax | 0642 |
| Logik | 0240, 0000, 0209, 0072, 0011 | Mediator | 0081 | Multitec..... | 0037 | Onkyo | 0222 |
| Luker | 0579 | Medion | 0209, 0348, 0642, 0352 | Multitech | 0039, 0000, 0072, 0020 | Optimus..... | 1062, 0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0432, 0062, 0058, 0054, 0454, 0593, 1048, 1162, 1262 |
| Lumatron..... | 0278, 0593, 1137 | MEI | 0035 | Murphy | 0000 | Optonica..... | 0062 |
| Lunatron..... | 1137 | Memorex | 0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0072, 0278, 0348, 0307, 0569, 1262, 1237, 1162, 1048, 1037, 0579, 0479, 0454, 0046, 0062, 0054 | Myryad | 0081 | Orbit | 0072 |
| Lux May | 0072 | | | NAD | 0240, 0104, 0058 | Orion | 0184, 0240, 0000, 0104, 0121, 0209, 0002, 0278, 0348, 0352, 1815, 1479, 0742, 0479, 0343, 0295, 0294, 0211, 0208, 0088, 0036 |
| Luxor | 0048, 0047, 0104, 0043, 0072, 0315, 0046, 0062 | Memphis..... | 0072 | Naiko | 0348, 0642 | Orson | 0000 |
| LXI | 0037, 0000, 0042, 0067, 0054 | Mercury | 0020 | NAP | 0039 | Osaki | 0037, 0000, 0072 |
| M Electronic..... | 0037, 0240, 0000, 0038 | Metronic | 0081 | Nebula Elec. | 0033 | Osume | 0072 |
| Magnadyne | 0081, 0212 | Metz..... | 1062, 0162, 0037, 0081, 1562, 0227, 0347, 0454, 0836, 1162, 1262 | NEC | 0035, 0037, 0048, 0104, 0067, 0041, 0278, 0038, 0008, 0082, 0370, 1137, 1287, 1288 | Otake | 0209 |
| Magnasonic | 0037, 0240, 0000, 0072, 0278, 0020, 0082, 0593, 1278 | MGA | 0060, 0240, 0043, 0061 | Neckermann | 0081, 0041, 0208 | Otto Versand | 0081 |
| Magnavox | 0035, 0037, 0048, 0039, 0081, 0240, 0000, 0149, 0642, 1781, 1593, 0618, 0593, 0563, 0110, 0054, 0011 | MGN Tech. | 0240 | Nesco | 0000, 0072 | Pace | 0352 |
| Magnin | 0240 | Micormay..... | 0348 | New Funk | 0209 | Pacific | 0000, 0348, 0642, 0742 |
| Magnum | 0642 | Micromaxx | 0209 | New Tech | 0072 | Packard Bell..... | 1972 |
| Manesth | 0081, 0045, 0209, 0072 | Microsoft | 1972 | Newave | 0037 | Palladium | 0037, 0209, 0041, 0072, 0348 |
| Marantz | 0035, 0081, 0209, 0038, 0062, 0295, 1381 | Midland..... | 0240, 0051 | Nikkai | 0072, 0278, 0020 | Palsonic..... | 0000, 0072, 0642 |
| Mark..... | 0000, 0278, 0020 | Migros | 0000 | Nikko | 0037, 0278 | Panama | 0035 |
| Marta | 0037 | Mind | 1972 | Nikkodo | 0037, 0278 | Panasonic | 1062, 0035, 0162, 0000, 1562, 1807, 1393, 1317, 1308, 1293, 1292, 1262, 1244, 1162, 1035, 0836, 0616, 0615, |
| Mastec | 0642 | Minolta..... | 0042, 0105 | Nikon | 0011, 0034 | | |
| | | Mitsubishi..... | 0060, 0048, 0047, 0081, 0000, 0042, 0067, 0043, 0041, | Nishi | 0240 | | |
| | | | | Niveus Media... | 1972 | | |
| | | | | Noblex | 0240 | | |
| | | | | Nokia | 0048, 0081, 0240, 0042, 0104, 0041, 0278, 0315, 0036, 0046, 0378 | | |
| | | | | Nordmende | 0067, 0041, 0320, 0384, 0207 | | |
| | | | | Northgate | 1972 | | |

| | | | | |
|--|--|--|---|---|
| | 0614, 0513, 0454, 0378, 0367, 0246, 227, 0225, 0077, 0051, 0020 | Protech..... 0081, 0072 | Rex..... 0041, 0384 | Schneider 0037, 0081, 0240, 0000, 0042, 0072, 0278, 0348, 0642, 0352, 0110, 1137 |
| Pathe Cinema .. | 0043, 0036 | ProVision 0278 | RFT 0072, 0020 | Scientific Atlanta 0008 |
| Pathe Marconi.. | 0041 | Pulsar 0039, 0240, 0278, 0051 | Ricavision 1972 | Scott 0184, 0045, 0121, 0043, 0036, 0208, 0210, 0211, 0212, 0593 |
| Penney | 0035, 0162, 0037, 0047, 0081, 0240, 0000, 0042, 0067, 0038, 0054, 0077, 1035, 1237 | Pulser 0240, 0051 | Ricoh 0034 | Sears 0060, 0035, 0162, 0037, 0048, 0039, 0047, 0033, 0045, 0000, 0042, 0104, 0067, 0043, 0209, 0041, 0072, 1237, 0105, 0066, 0065, 0011, 0058, 0054, 0018, 0034, 0046, 0036 |
| Pentax | 0042, 0065, 0105 | Pye 0081, 0000 | Rio 1137 | Seaway 0278 |
| Perdio | 0000, 0209 | Qisheng 0060 | Roadstar 0037, 0081, 0240, 0072, 0278, 0038, 0742 | SEG 0081, 0240, 0072, 0278, 0642, 0561 |
| Philco | 0035, 0081, 0000, 0209, 0072, 0038, 0110, 0479, 0561 | Quarter 0046 | Royal 0072 | SEI..... 0081 |
| Philips | 0035, 0162, 0048, 0081, 0045, 0000, 0209, 0384, 0110, 0062, 0034, 0563, 0593, 0616, 0618, 0739, 1081, 1181, 1381 | Quartz 0035, 0047, 0046 | Runco 0039 | Sei-Sinudyne.... 0081 |
| Phoenix | 0278 | Quasar 0035, 0162, 0002, 0278, 0077, 0454, 1035, 1162 | Saba..... 0041, 0278, 0320, 0384, 0062, 0207 | Seleco 0037, 0041, 0384, 0008, 0020 |
| Phonola..... | 0081 | Quelle 0081, 0208 | Saisho 0209, 0348, 0036, 0088, 0208 | Semivox 0045, 0209 |
| Pilot | 0037 | Questar..... 0020 | Salora 0104, 0043, 0046, 0075, 0443 | Semp 0045 |
| Pioneer..... | 0162, 0081, 0042, 0067, 0058, 1337, 1388, 1390 | Radialva..... 0037, 0048, 0081, 0072 | Sampo 0037, 0048 | Sentra 0072, 0278, 0020 |
| Polk Audio..... | 0081 | Radiola 0081 | Samsung..... 0060, 0240, 0045, 0000, 0038, 0432, 0051, 0053, 0077, 0210, 0212, 0739, 0760, 1014 | Setron 0072 |
| Portland 0278, 0020 | | Radionette..... 0037, 1137 | Samtron 0240, 0643 | Sharp 0037, 0048, 0047, 0032, 0000, 0209, 0569, 0062, 0065, 0363, 0807, 0848, 1048, 1285, 1400, 1815 |
| Precision 0058 | | RadioShack..... 0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0046, 0062, 0066, 1037, 1162 | Samurai..... 0020 | Shinco 0000 |
| Presidian 1593 | | Radix 0037 | Sanky 0048, 0039 | Shintom..... 0039, 0240, 0000, 0104, 0072, 0208 |
| Prinz 0000, 0088 | | Randex 0037 | Sansei 0048 | Shivaki..... 0037 |
| Profitronic..... 0081, 0240 | | Rank 0041 | Sansui 0240, 0000, 0067, 0209, 0041, 0072, 0002, 0348, 0082, 0271, 0479, 1479 | Shogun 0240, 0051 |
| Proline..... 0000, 0278, 0642, 0320, 0615 | | Rank Arena..... 0041 | Sanyo 0048, 0047, 0240, 0000, 0104, 0067, 0209, 0348, 0046, 0159, 0368, 0369, 0479, 1137, 1330, 1331 | Shorai 0088 |
| Proscan..... 0060, 0202, 0760, 0761, 1060 | | RCA..... 0060, 0035, 0048, 0240, 0045, 0000, 0042, 0149, 0320, 0065, 0077, 0105, 0058, 0202, 0211, 0054, 0277, 0760, 0761, 0807, 0880, 1035, 1060 | Saville 0240, 0278, 0352 | |
| Proscow 0278, 0844 | | Realistic 0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0121, 0278, 0046, 0062, 0065, 0066, 1162 | SBR..... 0081 | |
| Prosonic..... 0209, 0278 | | Reoc 0348 | ScanSonic 0240 | |
| Protec 0000, 0072 | | ReplayTV..... 0614, 0616 | Schaub Lorenz. 0000, 0104, 0041, 0348, 0315 | |

| | | | | | | | | |
|-------------------|---|-------------------|--|------------------|--|--|--|--|
| Siemens | 0037, 0081, 0104, 0320, 0046, 0054, 0347, 0510 | Sunstar | 0000 | Tedalex | 0037, 0209, 0348, 0642 | | 1290, 1289, 1145, 1008, 0845, 0828, 0742, 0544, 0366, 0212, 0210, 0066, 0062, 0054, 0008 | |
| Siera | 0081 | Suntronic | 0000 | Teknika | 0035, 0037, 0000 | | | |
| Signature | 0060, 0035, 0037, 0048, 0000, 0149, 0046, 0065, 0066, 0479 | Sunwood | 0072 | Teleavia | 0041 | | | |
| Silva | 0037 | Supra | 0037, 0278, 0348 | Telecorder | 0240 | | | |
| Silver | 0278 | Susumu | 0037 | Telefunken | 0209, 0041, 0278, 0642, 0320, 0384, 0208, 0593 | | Tosonic | 0278 |
| SilverCrest | 0642 | SV2000 | 0000, 0072 | Telenet | 1784 | | Totevision | 0037, 0240 |
| Singer | 0037, 0240, 0045, 0072, 0348, 0271 | SVA | 0000 | Telestar | 0037 | | Touch | 1972 |
| Sinudyne | 0081, 0209, 0352 | Sylvania | 0035, 0081, 0000, 0043, 0110, 0593, 1593, 1781 | Teletech | 0000, 0072, 0278 | | Towada | 0072 |
| Smaragd | 0348 | Symphonic | 0240, 0000, 0002, 0593, 1593 | Tempest | 0020 | | Toyoda | 0278 |
| Solavox | 0020, 0034 | Systemax | 1972 | Tenosal | 0072 | | Tradex | 0081 |
| Sonic Blue | 0614, 0616, 0643, 1137 | T+A | 0162 | Tensai | 0037, 0000, 0072, 0278 | | Trakton | 0020 |
| Sonneclair | 0072 | Tagar Systems.. | 1972 | Tevision | 0209, 0348, 0642, 0479 | | Triad | 0278 |
| Sonographe | 0046 | Taisho | 0209, 0088 | Texet | 0278, 0020 | | Triumph | 0208 |
| Sonolor | 0048, 0046, 0062 | Tandberg | 0278 | Thomas | 0000, 0002 | | Trix | 0037 |
| Sontec | 0037, 0278 | Tandy | 0000, 0104 | Thomson | 0060, 0067, 0041, 0278, 0320, 0384, 0202 | | Uher | 0240 |
| Sonwa | 0642 | Tashiko | 0037, 0048, 0081, 0240, 0000 | Thorn | 0037, 0104, 0041, 0320, 0036, 0443 | | Ultra | 0045, 0278, 0020 |
| Sony | 0035, 0048, 0047, 0032, 0033, 0000, 0067, 1972, 1636, 1448, 1447, 1297, 1296, 1295, 1232, 1032, 0640, 0639, 0636, 0586, 0046, 0034, 0011 | Tatung | 0048, 0081, 0045, 0000, 0067, 0043, 0209, 0041, 0348, 0352, 0008, 0053, 0366 | Tisonic | 0278 | | Ultravox | 0278 |
| Soundmaster ... | 0000 | Tchibo | 0348 | Tivo | 0618, 0636, 0739, 1337, 1996 | | Unitech | 0240, 0051 |
| Soundwave | 0037, 0209, 0348 | TCM | 0348 | TMK | 0240, 0000, 0036, 0208 | | United | 0348, 0742, 1593 |
| Ssangyong | 0072 | Teac | 0037, 0000, 0067, 0041, 0072, 0278, 0307, 0642, 0526, 0593, 0844, 1593 | TMK | 0240, 0000, 0036, 0208 | | Universum | 0037, 0081, 0240, 0000, 0104, 0209, 0348, 1137 |
| Stack 9 | 1972 | Tec | 0072, 0020 | TNIX | 0037 | | Vector | 0045 |
| Standard | 0278 | Tech Line | 0072 | Tocom | 0240 | | Vector Research | 0184, 0038 |
| Stern | 0278 | Technics | 0035, 0162, 0037, 0081, 0000, 0246, 1162 | Tokai | 0037, 0104, 0041, 0072 | | Vextra | 0072 |
| Strong | 0271 | TechniSat | 0348 | Topfield | 1959, 2045 | | Victor | 0067, 0041, 0384, 0008, 0370, 1283, 1299 |
| STS | 0042, 0105 | Technosonic | 0352 | Topline | 0348 | | Video Concepts | 0045, 0061, 0210, 0242 |
| Sunkai | 0209, 0278, 0348, 0295 | Teco | 0035, 0037, 0048, 0041, 0038 | Toshiba | 0081, 0240, 0045, 0000, 0042, 0067, 0043, 0209, 0041, 0384, 0352, 0432, 1384, 1386, 1972, 1325, 1323, 1996, | | Video Pro | 0020 |

Wards 0060, 0035, 0037,
0048, 0039, 0047,
0081, 0033, 0240,
0045, 0000, 0042,
0043, 0041, 0072,
0038, 0149, 0046,
0058, 0018, 0062,
0065, 0011, 0212,
0479, 0760

Watson 0081, 0642, 0352

Weltblick 0037

Wharfedale..... 0642, 0593, 0615

White Westinghs 0000, 0209, 0072,
0278, 0479

World 0209, 0002, 0348,
0479

XR-1000 0035, 0240, 0000,
0072, 0208

Yamaha 0041, 0038

Yamishi..... 0072, 0278

Yokan 0072

Yoko 0037, 0240, 0072,
0020

Yoshita 0072

Zenith 0037, 0039, 0033,
0000, 0209, 0041,
0278, 0011, 0034,
0479, 1137, 1139,
1479

ZT Group..... 1972

ZX..... 0209, 0348, 0352

A-ACC

Accurian 2502

Altec Lansing ... 2500, 2501

Apple 2503, 2505

DLO..... 2504, 2509

Griffin 2508

iPort 2506, 2507

NaviPod..... 2505

Sonance 2506, 2507

TEN Technology 2505

V-ACC

ABS 1272

Accurian 1653

Alienware 1272

Amino 1481

Axonix 1447

Buffalo 1739

CyberPower..... 1272

D-Link 1554, 1731

Dgtec 1363

Epson 1563, 1650

Gateway 1272

Hewlett Packard 1272, 1267

Howard Comps 1272

HP..... 1272, 1267

Hush 1272

iBUYPOWER ... 1272

Keyspan 1344

KoolConnect ... 1481

LG..... 1415

Linksys 1272, 1365

Macro Image Tech.1383

Media Center PC 1272

Microsoft 1272, 1805, 2049

Mind 1272

Motorola 1363

MyHD 1383

Niveus Media.... 1272

Northgate 1272

Packard Bell 1272

Panasonic 1120

Philips 1218

Pinnacle Systems 1447

Pioneer..... 1010

ReQuest..... 1245

Ricavision 1272

Roku 1486

Samsung..... 1190, 1490

Sensory Science 1126

Sharp 1010

Sony..... 1272, 1324, 1364

Stack 9..... 1272

SureWest 1481

Sylvania 1563

Systemax 1272

Tagar Systems . 1272

Toshiba 1272

Touch 1272

Viewsonic 1272, 1329

Vizio 1126

Voodoo 1272

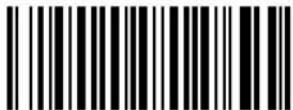
Xbox..... 1805, 2049

Zinwell..... 1363

ZT Group..... 1272

R-ACC

Bose..... 1629



312515

BOSE[®]
Better sound through research[®]

©2008 Bose Corporation, The Mountain,
Framingham, MA 01701-9168 USA
AM312515 Rev.01