



**Bose® 3•2•1
Advanced Remote Control**

Owner's Guide

AM272394_00_pdf • October, 2003

Thank you

Congratulations on your choice of the Bose® 3•2•1 advanced remote control. By programming this new remote to work with your other components, you can extend the convenience of your 3•2•1 home entertainment system, for even greater enjoyment.

Before you begin programming or using the remote, you need to install the batteries. For instructions, refer to “Installing remote control batteries” on page 4.

As soon as you install the batteries, you can use this new remote to turn your 3•2•1 system on and off. By pressing any of the remote source buttons, you can select the system source you want to hear and turn the system on at the same time.

If your 3•2•1 system is set up as suggested in the owner’s guide that came with the system, you can turn on the media center by simply pressing the **Video 1** button on your remote.

For instructions on preparing the remote for use with other products, refer to “Programming the advanced remote” on page 4.

Information about products that generate electrical noise

If applicable, this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the one to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: *Unauthorized modification of the receiver or radio remote control could void the user’s authority to operate this equipment.*

This product complies with the Canadian ICES-003 Class B specifications.

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English
Deutsch
Español
Français
Appendix

Batteries

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



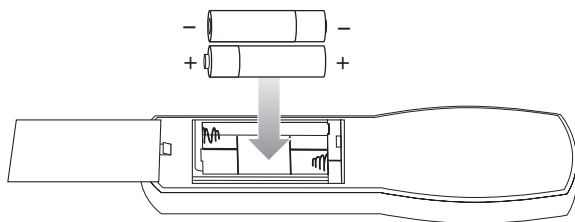
Installing remote control batteries

1. On the back of the remote, slide open the battery compartment (Figure 1).
2. Insert the two supplied AA (IEC-R6) 1.5V batteries, or their equivalent, as shown. Match the plus (+) and minus (-) marked on the batteries with the plus (+) and minus (-) inside the battery compartment.
3. Slide the battery compartment cover back into place.

Note: Replace the batteries when the remote control stops operating or its range seems reduced.

Figure 1

Installing the batteries

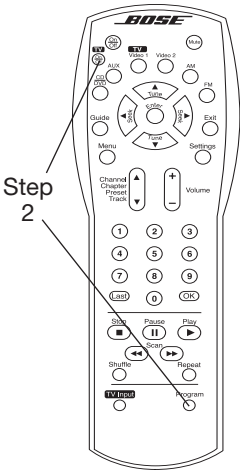


Programming the advanced remote

Find the four-digit setup code for your cable box, satellite box, or TV in the Appendix at the end of this guide.

There may be more than one code listed for your model of a particular product brand. If you notice a lack of response or limited functionality after programming the remote, you may need to use a different code for that product.

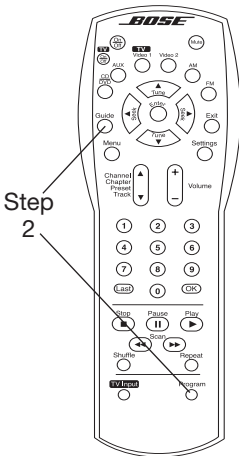
Note: When the remote is programmed for use with both the cable/satellite box and the TV, the channel controls on the remote will change channels on the cable/satellite box and not on the TV.



To control the TV

1. Turn on both the 3•2•1 system and your TV.
2. Press and hold the **Program** and **TV On/Off** buttons (shown on the left) for 3 seconds. The remote Source buttons will light to signal that you have entered programming mode.
3. Use the number keys to enter your TV's four-digit setup code.
4. Press **Program** once to complete programming. The remote will flash once to indicate successful programming. To confirm that, use the remote to turn your TV on and off or change channels.

Note: If your advanced remote flashes rapidly several times during programming, an error has occurred. Wait 7 seconds for the remote to clear and begin programming again.



To control the cable/satellite box

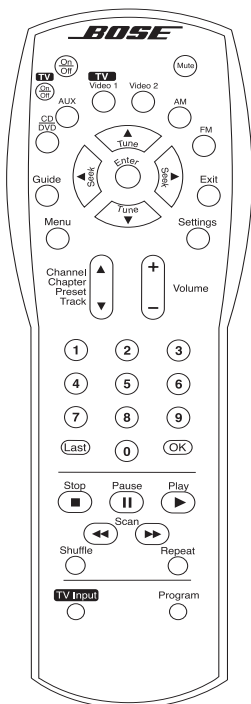
1. Turn on both the 3•2•1 system and your cable/satellite box.
2. Press and hold the **Program** and **Guide** buttons (shown on the left) for 3 seconds. The remote source buttons will light to signal that you have entered programming mode.
3. Use the number keys to enter your cable/satellite box's four-digit setup code.
4. Press **Program** once to complete programming. The remote will flash once to indicate successful programming. To confirm that, use the remote to change cable/satellite channels.

Note: If your advanced remote flashes rapidly several times during programming, an error has occurred. Wait 7 seconds for the remote to clear and begin programming again.

Getting familiar with the added functions

Buttons on the remote control are grouped according to function. Most of the buttons work just like the 3•2•1 system remote buttons.

The advanced functionality is highlighted below.



POWER and MUTE controls



Switches the system on or off.



Switches the TV on or off.



Does not turn cable box or satellite box on or off.



Mutes/unmutes the system volume.

SOURCE SELECTION controls



Selects Video 1 as the sound source and turns the system on.

Unmutes the system volume.



Changes the input selection on the TV.



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

Unmutes the system volume.



Selects AUX as the sound source and turns the system on.

Unmutes the system volume.



Selects Video 2 as the sound source and turns the system on.

Unmutes the system volume.



Selects the built-in tuner and turns the system on to the previously selected AM station.

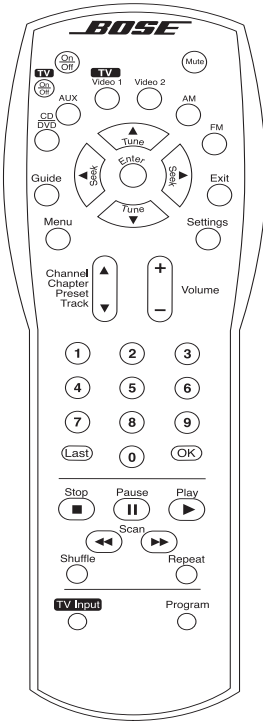
Unmutes the system volume.



Selects the built-in tuner and turns the system on to the previously selected FM station.

Unmutes the system volume.

SOURCE and MENU controls



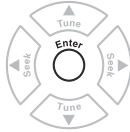
Guide



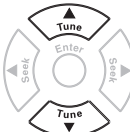
Turns the cable/satellite guide menu on and off.



Exits the displayed cable/satellite guide menu.

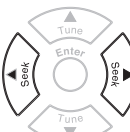


Enters submenus. Also accepts custom settings, choices, or entries in conjunction with other buttons.



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

In an on-screen menu, selects the next item, up or down.



Seeks forward or backward to the next strongest radio station.

In an on-screen menu, changes the setting of a selected menu item.

Menu



Displays the menu of the DVD disc currently loaded in the tray, if applicable.

Settings



Displays or exits the Bose® 3•2•1 system on-screen menus when the Video Input setting is selected on the TV.



Skips to the next/previous TV, cable, or satellite channel, DVD chapter, radio station preset, or CD track.



Volume

Does not affect TV volume.

Raises or lowers the system volume.

+ Unmutes the system volume. Raises the volume.

– Lowers the system volume while it is muted.

SOURCE and MENU controls

- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨
- ⑩

Last

OK

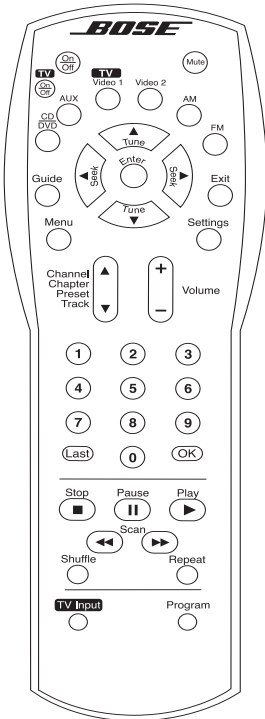
Select a channel when TV Video 1 is on.♪

Each button gives you access to a similarly numbered DVD chapter, CD track, or radio station preset.

Returns to the TV or cable/satellite channel previously selected.

Enters the selected channel.

♪ **Note:** When selecting numbers 1 through 9, entering a zero before the number ensures the fastest response.



PLAYBACK controls

Stop



Stops the disc player and, for DVDs only, temporarily holds the place where the disc stopped. Press **Stop** again and the player moves to the beginning of the disc.

Pause



Pauses the disc player in place. After 20 minutes, switches to Stop.

Play



Starts the disc player.

Scan



Scans back or forward for DVD chapters, CD tracks, or the next strongest radio station.

Shuffle



Plays audio CD tracks (not DVD chapters) in varied order. Press again to cancel this mode.

Repeat



Repeats a CD, CD track, DVD chapter, or DVD title until the button is pressed again.

Codes for Cable

ABC.....	0003, 0008, 0014, 0007, 0011, 0013, 0017, 0033, 0047	Eastern.....	0002, 0274, 0418
Ajinvision.....	1271	Electricord.....	0078
Alcatel.....	0896, 0897	Emerson.....	0797
Allegro.....	0153, 0315	Everquest.....	0015, 0040
Americast.....	0899	Filmnet.....	0443
Amstrad.....	1222	Focus.....	0400
Anvision.....	0111, 0211	France Telecom.....	0451, 0817, 0896, 0897
Archer.....	0153, 0797	Funai.....	0019, 0248
BT.....	0105	GHZ.....	0078
Bell & Howell.....	0014	GMI.....	0015, 0057, 0069, 0797
Bell South.....	0899	Galaxi.....	0008
Bestlink.....	0303	Garrard.....	0153
Birmingham Cable Communications.....	0276	Gemini.....	0015, 0057, 0070, 0242, 0797
British Telecom.....	0003, 0105	General Instrument....	0476, 0003, 0276, 0014, 0015, 0011, 0024, 0098, 0810
Cable & Wireless.....	1068	GoldStar.....	0144, 0040, 0838
Cabletime.....	0271, 0377, 0448, 0665	Golden Channel.....	1110
Century.....	0153	Goodmind.....	0797
Citizen.....	0153, 0315	Grundig.....	0529
Colour Voice.....	0025, 0031	Hamlin.....	0009, 0020, 0034, 0259, 0273
Comtec.....	0274	Hitachi.....	0014, 0011, 0033, 0255
Comtronics.....	0040, 0060	Hwalin.....	0303
Contec.....	0019	HyperVision.....	0619
Cryptovision.....	0600	Hytex.....	0007
Daehan.....	0778	IEEC.....	1018
Daeryung.....	0877, 0008, 0277, 0477, 1877		
Decsat.....	423		
Director.....	0476		

Codes for Cable

Jasco.....	0015, 0153, 0315	Pacific.....	0678
Jebsee.....	0400	Pacific Bell.....	0843
Jerrold.....	0476, 0003, 0276, 0012, 0014, 0015, 0011, 0024, 0047, 0098, 0810	Panasonic.....	0008, 0000, 0107, 0021, 0040
Kuang Yu.....	0024	Paragon.....	0000
LG.....	0144, 0040, 0779, 0838	Philips.....	0305, 0317, 0013, 0025, 0031, 0032, 0060, 0069, 0111, 0153, 0211, 0242, 0255, 0290, 0451, 0619, 0652, 0817
Leon.....	0015, 0069	Pioneer.....	0877, 0144, 0533, 0023, 1021, 1877
MNet.....	0019, 0443	Popular Mechanics....	0400
MS.....	0015, 0069, 0303, 1018	Pulsar.....	0000
Macab.....	0817	Quasar.....	0000
Macom.....	0033	RCA.....	0021, 0843
Magnavox.....	0032, 0069	RadioShack.....	0015, 0303, 0315, 0797
Memorex.....	0000	Rampage.....	0255
Motorola.....	0476, 1106, 0276, 0810	Recoton.....	0400
Movie Time.....	0063, 0078	Regal.....	0020, 0259, 0273, 0279
Mr. Zap.....	1112	Regency.....	0002
NET.....	0274	Rembrandt.....	0011, 0070
NSC.....	0063, 0070	Runco.....	0000
NTL.....	1068	SL Marx.....	0040
Noos.....	0817	Sagem.....	0817, 1089
Now.....	0776	Samsung.....	0144, 0000, 0040, 0070, 0702, 0840
Oak.....	0019, 0007, 0248, 0303	Scientific Atlanta.....	0877, 0008, 0017, 0277, 0477, 1877
Ono.....	1068		
Optimus.....	0021		
PVP Stereo Visual			
Matrix.....	0003		
Pace.....	0237, 1060, 1068		

Codes for Cable

SeWoo.....	0073	Trans PX.....	0276, 0153, 0303, 0315
Seawoo.....	0780	Tudi.....	0286
Sharp.....	0313	Tusa.....	0015
Signal.....	0015, 0040	UBS.....	0073
Signature.....	0011	Unika.....	0153
Sony.....	1006	United Artists.....	0007
Sprucer.....	0021	United Cable.....	0003
Starcom.....	0003, 0014, 0015, 0047, 0098	Universal.....	0078, 0153, 0191
Stargate.....	0015, 0040, 0797	Videoway.....	0250
Starquest.....	0015	Viewstar.....	0060, 0063, 0111, 0211
Storm.....	1018	Visionetics.....	1064, 1264
Supercable.....	0276	Visiopass.....	0451
TS.....	0003, 0024, 0255, 0303, 1018	Westminster.....	0105, 0716
TV86.....	0063	Wiso.....	0078
Tadiran.....	0040	Zenith.....	0000, 0525, 0899
Tae Kwang.....	0068	Zentek.....	0400
Taepyung.....	0678		
Taihan.....	0778		
Teac.....	1018		
Tele Danmark.....	1016		
Tele+1.....	0443		
Teleview.....	0040		
Telewest.....	1068		
Thomson.....	1110		
Timeless.....	0274, 0418		
Tocom.....	0012, 0013		
TongKook.....	0777, 0840		
Torx.....	0003		
Toshiba.....	0000		

Codes for Satellite

@sat.....	1300	Anttron.....	0183, 0421, 0613
ABsat.....	0123, 0668, 0832	Apollo.....	0421
AGS.....	0668, 0710	Arcon.....	0100, 0217, 0332, 0368, 0692, 0834, 1043, 1205
ASA.....	0397	Armstrong.....	0243
ASLF.....	0713	Asat.....	0200
AST.....	0321, 0351	Astacom.....	0668
Aegir.....	0520	Aston.....	0142, 1129, 1261
Akai.....	0200, 0515	Astra.....	0108, 0145, 0243, 0530, 0607
Akena.....	0668	Astro.....	0173, 0358, 0369, 0501, 0520, 0548, 0613, 0658
Alba.....	0421, 0455, 0515, 0519, 0613, 0713, 0734	Athena.....	0668
Aldes.....	0288, 0519, 0520, 0734	Atsat.....	1300
Allsat.....	0067, 0183, 0200, 0364, 0734	AudioTon.....	0364, 0613
Allsonic.....	0288, 0369	Avalon.....	0396
Alltech.....	0713	Axiel.....	0668For TV
Alpha.....	0668	Axis.....	0369, 0530, 0834
AlphaStar.....	0772	BEC.....	1303
Amitronica.....	0713	BT.....	0515, 0668, 0710
Ampere.....	0368, 0396	BVV.....	0692
Amstrad.....	0080, 0132, 0243, 0252, 0338, 0345, 0396, 0461, 0501, 0713, 0742, 0795, 0847, 1113	Barcom.....	0217
Amway.....	0043	Bell ExpressVu.....	1167
Anglo.....	0713	Best.....	0217, 0369
Ankaro.....	0217, 0288, 0369, 0519, 0692, 0713	Bestar.....	0243
		Birdview.....	0045
		Blaupunkt.....	0173

Codes for Satellite

Boca.....	0132, 0243, 0589, 0683, 0713, 0794, 0829	D-box.....	0723, 0873, 1127
Brain Wave.....	0332, 0692	DMT.....	1075
British Sky Broadcasting.....	0847, 1175	DNR.....	0692
Broco.....	0530, 0713	DNT.....	0200, 0396
Bubu Sat.....	0713	DST.....	0421
Bush.....	0067, 0183	DX Antenna.....	0041, 0752
CNT.....	0520	Dae Young.....	0735
Cambridge.....	0515, 0683	Daeryung.....	0396
Canal Digital.....	0853	Daewoo.....	0713, 1296
Canal Satellite.....	0853	Dansat.....	0183
Canal+.....	0853	Daumling.....	0794
Channel Master.....	0018	Dgtec.....	1242
Chaparral.....	0216	Digenius.....	0299
CityCom.....	0115, 0394, 0607, 0818, 1176	DirecTV.....	0392, 0566, 0639, 1142, 0247, 0749, 0724, 0819, 1076, 1109, 1749, 1856
Clatronic.....	0332	Discovery.....	0668, 0710
Colombia.....	0668	Dish Network System.....	1005, 0775
Columbia.....	0132	DishPro.....	1005, 0775
Columbus.....	0668	Diskxpress.....	0217
CommLink.....	0288	Distratel.....	0084, 0885
Condor.....	0369, 0607	DitriStrad.....	0592
Conifer.....	0004	Drake.....	0018, 0064, 0245
Connexions.....	0396	Dream Multimedia....	1237
Conrad.....	0115, 0369, 0589, 0607	Dune.....	0369
Contec.....	0394, 0589	Dynasat.....	0679
Cosat.....	0592	EIF.....	0417
Crossdigital.....	1109	EP Sat.....	0455
Crown.....	0243		
Cyrus.....	0200		

Codes for Satellite

Echostar.....	1005, 0775, 0100, 0148, 0159, 0167, 0170, 0218, 0269, 0280, 0312, 0396, 0453, 0454, 0465, 0511, 0610, 0616, 0668, 0688, 0713, 0853, 0871, 1086, 1169	Fenner.....	0668
Einhell.....	0243, 0252, 0288, 0421, 0501, 0517, 0713, 0794	Ferguson.....	0036, 0067, 0183, 0336, 0455, 0711
Elta.....	0200, 0364, 0369, 0421	Fidelity.....	0252, 0368, 0461, 0501
Emanon.....	0421	Finlandia.....	0108, 0455
Emme Esse.....	0369, 0679, 0871	Finlux.....	0108, 0397, 0455, 0573
Engel.....	0713, 1017	Force NO AS.....	1101
Eurieult.....	0417	Foxtel.....	0879
Eurocrypt.....	0108, 0455	Fracarro.....	0421, 0668, 0871
Europa.....	0501, 0589	Freecom.....	0335, 0421, 0501, 0734
Eurosat.....	0243	Fresat.....	0885
Eurosky.....	0243, 0369, 0607	Fuba.....	0108, 0172, 0173, 0217, 0369, 0394, 0396, 0417, 0421, 0573
Eurostar.....	0100, 0607, 0679, 1025, 1026	Funai.....	0338
Exator.....	0421, 0515, 0613	G-Sat.....	0183
Expressvu.....	0775	GE.....	0566
Extra Sat.....	0519	GOI.....	0775
FTE.....	0100, 0331, 0368, 0369, 0589, 0683, 0713, 0863	Galaxi.....	0217
		Galaxis.....	0283, 0288, 0364, 0369, 0530, 0592, 0692, 0833, 0834, 0863, 1101, 1111
		Galaxisat.....	0321
		Gardiner.....	0818
		General Instrument...	0869, 0038, 0361, 0627
		Gold Box.....	0292, 0853
		GoldStar.....	0335

Codes for Satellite

Good- ing.....	0571	Humax.....	0283, 0863, 1176
Goodmans.....	0455, 1246, 1284	Hung Chang.....	0732
Gradiente.....	0887	Huth.....	0243, 0288, 0332, 0364, 0368, 0388, 0517, 0589, 0607, 0794, 0829
Granada.....	0108, 0455	Hwalin.....	0885
Grandin.....	0417	Hypson.....	0417
Grothusen.....	0335	Hyundai.....	0758, 1011, 1159
Grundig.....	0139, 0140, 0173, 0345, 0571, 0750, 0805, 0847, 0879	IEEC.....	0605
HDT.....	1011, 1159	IR.....	0067, 0108, 0173, 0183, 0217, 0252, 0331, 0338, 0358, 0455, 0461
HTS.....	0775	IRTE.....	0609
Hanseatic.....	0605	ISkyB.....	0887
Hantor.....	0332, 0421	ITT.....	0108, 0172
Hanuri.....	0520	Ikusi Allsat.....	0368
Hase & Igel.....	0692	InVideo.....	0871
Heliocom.....	0368	Indovision.....	0887
Helium.....	0607	Intersat.....	0043
Hinari.....	0183, 0421	Intertronic.....	0243
Hirschmann.....	0173, 0396, 0397, 0398, 0495, 0501, 0573, 0882, 1085	Intervision.....	0592, 0607, 0628
Hisawa.....	0332	JOK.....	0690, 0710
Hitachi.....	0819, 0214, 0455, 0489, 0491, 1250	JSR.....	0364
Houston.....	0461, 0592, 0668	JVC.....	0775, 0492, 0505, 0506, 0515, 0571
Hughes Network Systems.....	1142, 0749, 1749	Jerrold.....	0036, 0361, 0627
		JiWon.....	0364

Codes for Satellite

Johansson.....	0332, 0364	Logix.....	1017
K-SAT.....	0713	Lorenzen.....	0299, 0607, 0692, 0742, 0794, 1294
KR.....	0613, 0734	Lorraine.....	0335
Kabil.....	0737	Lupus.....	0369
Kathrein.....	0123, 0173, 0200, 0249, 0331, 0358, 0394, 0442, 0480, 0553, 0613, 0622, 0658, 0713, 0742, 1057, 1221	Luxor.....	0108, 0172, 0345, 0573
KeyWest.....	0794	M&B 1.....	0605
Kolon.....	0421	Macab.....	0004
Kosmos.....	0331, 0335, 0442	Macom.....	0018
Kreiselmeier.....	0173	Magnavox.....	0724, 0722
Kuangyu.....	0635	Manata.....	0710
Kyostar.....	0421, 0613	Manhattan.....	0455, 0520, 0592, 1017, 1083
L&S Electronic.....	1043	Marantz.....	0200
LG.....	0335, 0461, 1226	Marave.....	0417
LaSAT.....	0115, 0243, 0369, 0520, 0607, 0683	Mascom.....	0520
Labgear.....	1296	Maspro.....	0041, 0173, 0336, 0495, 0571, 0713, 0750
Legend.....	0269	Master's.....	0394
Lemon.....	0692	Matsui.....	0173, 0571, 0710
Lenco.....	0335, 0421, 0530, 0605, 0692, 0713	Matsushita.....	0214, 0340, 0500
Lennox.....	0592	Max.....	0607
Lenson.....	0501	MediaSat.....	0292, 0501, 0530, 0853
Leyco.....	0515	Mediabox.....	0292
Lifesat.....	0369, 0605, 0713, 1122	Mediamarkt.....	0243
Loewe.....	0243	Medion.....	0369, 0713
		Mega.....	0200
		Memorex.....	0724, 0269

Codes for Satellite

Metronic.....	0084, 0243, 0288, 0421, 0519, 0520, 0613, 0713, 1282	Nikko.....	0200, 0243, 0713, 0734
Metz.....	0173	Nokia.....	0108, 0172, 0397, 0455, 0573, 0723, 0751, 0873, 1023, 1127, 1723
Micro.....	0713	Nordmende.....	0421, 0455, 0520
Micro Elektronik.....	0713	Norsat.....	0004
Micro Tech.....	0530	Novis.....	0332
Microtec.....	0713	Now.....	0757
Minerva.....	0571	OSAT.....	0345
Mitsubishi.....	0749, 0455, 0491	Octagon.....	0421, 0613
Morgan's.....	0132, 0200, 0243, 0364, 0589, 0683, 0713, 0794, 0829	OctalTV.....	1005
Motorola.....	0869	Okano.....	0243, 0331, 0668
Multichoice.....	0642, 0879	Optex.....	0394, 0417, 0834
Multistar.....	0331	Orbit.....	0351, 1022
Muratto.....	0335	Orbitech.....	0421, 0501, 0548, 0589, 1100
Myryad.....	0200	Oxford.....	0515, 0668
Mysat.....	0713	Pace.....	0067, 0183, 0200, 0241, 0336, 0455, 0497, 0720, 0791, 0795, 0847, 0867, 0887, 1175, 1323
NEC.....	0178, 0496, 0499, 0507, 0508, 1270	Palladium.....	0243, 0421, 0501, 0571
Navex.....	0332	Palsat.....	0501
Netgem.....	1322	Panasat.....	0615, 0879
Netsat.....	0887		
Neuhaus.....	0501, 0530, 0589, 0592, 0692, 0713, 0834		
Neusat.....	0692, 0713, 0834		
Next Level.....	0869		
NextWave.....	0732		

Codes for Satellite

Panasonic.....	0247, 0701, 0214, 0340, 0455, 0500, 0739, 0847, 1104, 1320	Promax.....	0455
Panda.....	0067, 0108, 0455	Prosat.....	0288, 0628
Pantech.....	0747	Proscan.....	0392, 0566
Paristad.....	0417	Provisat.....	0520
Patriot.....	0515, 0668	Pye.....	0571
Paysat.....	0724	Pyxis.....	0834
Philips.....	1142, 0749, 0724, 1076, 0722, 0133, 0173, 0183, 0200, 0217, 0292, 0455, 0571, 0589, 0613, 0710, 0750, 0805, 0853, 0898, 1118, 1749	Quadral.....	0288, 0369, 0519, 0589, 0628, 0668
Phoenix.....	0183	Quelle.....	0252, 0607
Phonotrend.....	0288, 0592	RCA.....	0392, 0566, 0855, 0143
Pioneer.....	0292, 0329, 0352, 0662, 0853	RFT.....	0200, 0288
Planet.....	0396	Radio Shack.....	0869
Plasmatic.....	0442	Radiola.....	0200
Polytron.....	0394, 0396	Radix.....	0396, 0882, 1113, 1255
Praxis.....	0733, 1123	Rainbow.....	0613
Predki.....	0332, 0421	Rediffusion.....	0004
Preisner.....	0132, 0589	Redpoint.....	0530
Premier.....	0292, 0592	Redstar.....	0369
Prima.....	0795	Roadstar.....	0713
Primestar.....	0361, 0627	Rover.....	0628, 0713
ProVision.....	0520	SAT.....	0321, 0351, 0461, 0501
Profile.....	0710	SEG.....	0369, 0421, 0519, 0605, 0742, 1087
		SKR.....	0713
		SKY.....	0856, 0887
		SL Marx.....	0692
		SM Electronic.....	0157, 0240, 0587, 0713, 1200
		STS.....	0037, 0041
		STVI.....	0417

Codes for Satellite

Saba.....	0183, 0336, 0520, 0690, 0692, 0710, 0734, 0885	Silva.....	0335
Sabre.....	0455	Skantin.....	0713
Sagem.....	0820, 1114, 1253	Skardin.....	0530
Salora.....	0108, 0172	Sky Television.....	1014
Samsung.....	1109, 0773, 1017, 1243, 1244, 1276, 1293	Skylife.....	1255
Sanyo.....	0493, 1219	Skymaster.....	0240, 0288, 0519, 0605, 0628, 0713, 0880
Sat Control.....	1300	Skymax.....	0200
Sat Team.....	0368, 0713	Skytwin.....	0519
SatPartner.....	0332, 0335, 0421, 0501, 0520, 0613, 0692, 0734	Skyvision.....	0364
Satcom.....	0605	Smart.....	0132
Satec.....	0183, 0713, 0834	Sony.....	0639, 0163, 0275, 0292, 0294, 0661, 0847
Satelco.....	0369	Star.....	0887
Satline.....	0628	Star Choice.....	0869
Satplus.....	1009	Star Trak.....	0421
Satstation.....	1083	Starcast.....	0042
Schacke.....	0613	Starland.....	1122
Schneider.....	0668, 0805	Starring.....	0332
Schwaiger.....	0116, 0183, 0394, 0589, 0605, 0732, 1111	Strong.....	0132, 0369, 0421, 0520, 0613, 0879, 1105, 1147, 1159, 1300
Sedea Electronique..	0421	Sumida.....	0243
Seemann.....	0243, 0396, 0515, 0530	Sunny Sound.....	0369
Seleco.....	0592, 0871	Sunsat.....	0530, 0713
Sharp.....	0494	Sunstar.....	0243, 0369, 0794, 0829
Siemens.....	0173, 0683	Super Sat.....	0679
		Supernova.....	0887
		TPS.....	0820, 1253

Codes for Satellite

Tada.....	0368	Topfield.....	1206
Tae Kwang.....	0733	Toshiba.....	0749, 0790, 0082, 0137, 0455, 0486, 1749
Tagra.....	0364	Triad.....	0321, 0335, 0351, 0372
Tantec.....	0336, 0455	Triasat.....	0501
Tatung.....	0145, 0455	Triax.....	0115
TechniSat.....	0005, 0501, 0548, 1099, 1100	Twinner.....	0136, 0417
Techniland.....	0592	UltimateTV.....	0392, 0639
Technowelt.....	0607	Uniden.....	0724, 0722, 0194
Teco.....	0243	Unisat.....	0200, 0243
Telasat.....	0605	Unitor.....	0217, 0332
Teleciel.....	0613, 0734	Universum.....	0115, 0173, 0397, 0571, 0607, 0742
Teledirekt.....	0183	VTech.....	0321, 0351, 0690, 0818
Telefunken.....	0421	Variosat.....	0173
Teleka.....	0243, 0396, 0501, 0613, 0692, 0750	Ventana.....	0200
Telemaster.....	0520	Vestel.....	0742
Telesat.....	0605	Victor.....	0492, 0505, 0506
Telestar.....	0114, 0157, 0501, 1100	Visiosat.....	0690
Televes.....	0455, 0501, 0734	Vortec.....	0421
Televisa.....	0887	Wela.....	0589, 0713, 0794
Telewire.....	0592	Wetekom.....	0829
Ten Haaft.....	0692	Wewa.....	0455
Thomson.....	0115, 0265, 0292, 0455, 0607, 0711, 0713, 0853, 1012, 1046, 1291, 1900	Winersat.....	0332, 1045
Thorn.....	0455	Wintergarten.....	0288
Tioko.....	0394		
Tonna.....	0455, 0501, 0592, 0668		

Codes for Satellite

Wisi.....	0004, 0173, 0321, 0351, 0372, 0396, 0406, 0455, 0589, 0638, 0690
Woorisat.....	0520
Worldsat.....	0710
XSat.....	0123, 0668
Xcom Multimedia....	0668
Xrypton.....	0369
Yes.....	0887
Zaunkonig.....	0692
Zehnder.....	0114, 0321, 0331, 0369, 0520, 0742, 0818, 1075
Zenith.....	0856, 0064, 0245, 0635, 1856
Zeta Technology.....	0200
Zodiac.....	0613
Zwergnase.....	0243, 0794, 0829

Codes for Television

A-Mark.....	0003	Akai.....	0030, 0009, 0035, 0037, 0072, 0098, 0163, 0191,0208, 0218, 0329, 0361, 0371, 0433, 0448, 0480, 0516, 0548, 0556, 0581, 0602, 0631, 0672, 0696, 0702, 0708, 0812
A.R. Systems.....	0556		
AGB.....	0516		
AOC.....	0451, 0093, 0180, 0060, 0030, 0178, 0019, 0179, 0018, 0003, 0009, 0052, 0092, 0108, 0137, 0185, 0474		
ASA.....	0087, 0104	Akib.....	0294
AWA.....	0009, 0157	Akiba.....	0282, 0037, 0218, 0294, 0455
Abex.....	0032		
Acura.....	0009	Akito.....	0272
Addison.....	0092, 0108, 0653	Akura.....	0282, 0009, 0037, 0218, 0264, 0283, 0358, 0412, 0493
Admiral.....	0093, 0463, 0087, 0163, 0213, 0363		
Advent.....	0761, 0815, 0817, 1933	Alaron.....	0179, 0183, 0216
Adventura.....	0046		
Adyson.....	0032, 0068, 0216, 0217	Alba.....	0009, 0036, 0037, 0049, 0163, 0211, 0216, 0218, 0235, 0247, 0371, 0418, 0487, 0581, 0668
Agef.....	0087		
Aiko.....	0092, 0217, 0264		
Aiwa.....	0701, 0705, 1904, 1910, 1914, 1915, 1916	Alfide.....	0672
		Allorgan.....	0206, 0217, 0294
		Allstar.....	0037
		Ambassador.....	0177
		America Action.....	0180
		Amplivision.....	0217, 0320, 0370, 0400

Codes for Television

Ampro.....	0751	Audiosonic.....	0009, 0037, 0109, 0217, 0218, 0264, 0337, 0370, 0428, 0486
Amstrad.....	0009, 0037, 0171, 0177, 0218, 0264, 0354, 0371, 0412, 0433, 0516, 0581	Audiovox.....	0451, 0180, 0003, 0092, 0623
Anam.....	0250, 0180, 0003, 0004, 0009, 0068, 0161, 0425, 0426, 0628, 0700	Autovox.....	0076, 0087, 0206, 0217, 0247, 0336
Anam National.....	0250, 0055, 0161, 0425, 0650	BPL.....	0282, 0037
Anglo.....	0264	BSR.....	0294
Anitech.....	0282, 0009, 0037, 0068, 0076, 0264, 0474	BTC.....	0218
Ansonic.....	0009, 0037, 0102, 0292, 0370, 0428	Baird.....	0072, 0073, 0190, 0193, 0208, 0217, 0343
Apex Digital.....	0748, 0765, 0767, 1943	Bang & Olufsen.....	0087, 0275, 0565
Arc En Ciel.....	0196, 0399	Barco.....	0380
Arcam.....	0216, 0217	Basic Line.....	0282, 0009, 0037, 0217, 0218, 0374, 0455, 0567
Archer.....	0003	Baur.....	0010, 0037, 0065, 0146, 0303, 0349, 0361, 0505, 0512, 0535, 0554
Aristona.....	0037, 0556	Baysonic.....	0180
Asberg.....	0076, 0102	Bazin.....	0217
Asora.....	0009	Beaumarck.....	0178
Asuka.....	0217, 0218, 0264	Beko.....	0037, 0370, 0428, 0486, 0714, 0715
Atlantic.....	0206, 0320	Belcor.....	0019
Audinac.....	0391	Bell & Howell.....	0154, 0016
AudioTon.....	0217, 0264, 0428, 0486		

Codes for Television

Beon.....	0032, 0037, 0418	Bush.....	0282, 0007, 0009, 0036, 0037, 0208, 0211, 0217, 0218, 0264, 0272, 0294, 0349, 0355, 0361, 0363, 0371, 0374, 0487, 0519, 0581, 0614, 0617, 0668, 0698, 1037, 1900
Best.....	0337, 0370, 0421	CCE.....	0037, 0217, 0329
Bestar.....	0037, 0370, 0374	CGE.....	0074, 0076, 0084, 0247, 0370, 0418
Binatone.....	0217	CS Electronics.....	0216, 0218, 0247
Blaupunkt.....	0191, 0195, 0200, 0213, 0327, 0328, 0535, 0554	CTC.....	0247
Blue Sky.....	0282, 0037, 0218, 0455, 0668, 1037	CXC.....	0180
Blue Star.....	0282	Candle.....	0030, 0056, 0046, 0186
Bondstec.....	0247	Canton.....	0218
Boots.....	0217, 0272	Carad.....	0610
Bradford.....	0180	Carena.....	0037, 0455
Brandt.....	0109, 0196, 0198, 0205, 0287, 0335, 0399	Carnivale.....	0030
Brinkmann.....	0037, 0418, 0519	Carrefour.....	0036, 0037, 0057
Brionvega.....	0087	Carver.....	0054, 0170
Britannia.....	0216, 0217	Cascade.....	0009, 0037
Brockwood.....	0019	Cathay.....	0037, 0474
Broksoni.....	0236, 0463, 0003, 0426, 1905, 1911, 1929, 1935, 1938	Celebrity.....	0000
Bruns.....	0087	Celera.....	0765
		Centurion.....	0037
		Century.....	0087, 0213, 0247

Codes for Television

Changhong.....	0765	Contec.....	0180, 0009, 0036, 0157, 0158, 0185, 0216
Ching Tai.....	0179, 0003, 0009, 0092, 0474	Continental Edison...	0109, 0196, 0198, 0205, 0287, 0399, 0487
Chun Yun.....	0000, 0180, 0179, 0003, 0009, 0033, 0092, 0161, 0474	Cosmel.....	0037, 0337
Chung Hsin.....	0180, 0053, 0033, 0036, 0108, 0474	Craig.....	0180, 0161
Cimline.....	0009, 0218	Crezar.....	0213
Cinema.....	0672	Crosley.....	0054, 0074, 0076, 0084, 0087, 0213, 0247
Cineral.....	0451, 0092	Crown.....	0180, 0039, 0009, 0037, 0076, 0208, 0339, 0370, 0418, 0421, 0486, 0579, 0672
Citizen.....	0060, 0030, 0056, 0039, 0046, 0092, 0186, 0280, 0561, 1928, 0561, 1928	Crown Mustang.....	0672
City.....	0009	Curtis Mathes.....	0047, 0054, 0154, 0451, 0093, 0060, 0030, 0145, 0056, 0016, 0039, 0166, 0466, 0702, 0747, 1147, 1347, 1919
Clairtone.....	0185	Cybertron.....	0218
Clarion.....	0180	DER.....	0190, 0193
Clarivox.....	0037, 0102		
Clatronic.....	0009, 0037, 0076, 0102, 0217, 0218, 0247, 0320, 0370, 0371, 0579		
Clayton.....	0385		
Colt.....	1906		
Concerto.....	0056		
Condor.....	0282, 0009, 0037, 0102, 0247, 0320, 0370, 0411		
Conic.....	0032		
Conrac.....	0808		

Codes for Television

Daewoo.....	0154, 0451, 0180, 0030, 0178, 0019, 0056, 0039, 0003, 0004, 0009, 0032, 0037, 0066, 0091, 0092, 0108, 0170, 0217, 0218, 0374, 0391, 0402, 0474, 0499, 0623, 0624, 0627, 0628, 0634, 0661, 0700, 1902, 1909, 1921, 1928	Dual.....	0037, 0057, 0217, 0259, 0303, 0336, 0394, 0519, 0531
Dainichi.....	0216, 0218	Dual Tec.....	0217
Dansai.....	0032, 0035, 0036, 0037, 0216	Dumont.....	0017, 0019, 0070, 0087, 0102, 0213
Dantax.....	0486	Dwin.....	0720, 0774
Dayton.....	0009	Dynatech.....	0049
Daytron.....	0019, 0374	ECE.....	0037
De Graaf.....	0208, 0227, 0363, 0548	EMI.....	0005
Decca.....	0033, 0037, 0049, 0072, 0217, 0272, 0516	Ectec.....	0391
Denko.....	0264	Elbe.....	0217, 0238, 0259, 0292, 0411, 0435, 0516
Denon.....	0145, 0511	Electroband.....	0000, 0185
Denver.....	0037	Electrohome.....	0381, 0389, 0409
Desmet.....	0009, 0037	Elekta.....	0264
Diamant.....	0037	Elin.....	0009, 0037, 0104, 0349, 0361, 0448, 0548
Digatron.....	0037	Elite.....	0218, 0320
Dixi.....	0004, 0009, 0037	Elman.....	0102
Domland.....	0394	Elta.....	0009, 0068, 0474
		Emco.....	0247

Codes for Television

Emerson.....	0154, 0236, 0463, 0180, 0282, 0178, 0019, 0179, 0039, 0037, 0038, 0070, 0087, 0158, 0177, 0181, 0182, 0183, 0185, 0213, 0247, 0280, 0320, 0361, 0371, 0623, 1905, 1909, 1911, 1928, 1929	Fidelity.....	0082, 0163, 0193, 0216, 0264, 0361, 0363, 0371, 0412, 0474, 0512
Emperor.....	0282	Filsai.....	0217
Envision.....	0030, 0813	Finlandia.....	0072, 0163, 0208, 0346, 0363, 0548
Erres.....	0012, 0037	Finlux.....	0179, 0037, 0070, 0072, 0087, 0102, 0104, 0105, 0217, 0346, 0411, 0516
Ether.....	0030, 0003, 0009, 0161	Firstar.....	0236, 0009, 0033
Etron.....	0009, 0283, 0646	Firstline.....	0009, 0037, 0072, 0216, 0217, 0238, 0247, 0294, 0374, 0385, 0411, 0531, 0668
Euroman.....	0037, 0264, 0421	Fisher.....	0047, 0154, 0036, 0045, 0072, 0087, 0104, 0157, 0159, 0208, 0217, 0303, 0370
Europa.....	0037	Flint.....	0037, 0072, 0218, 0264, 0455, 0610
Europhon.....	0102, 0213, 0217, 0516	Forgestone.....	0193
Expert.....	0206	Formenti.....	0037, 0065, 0087, 0213, 0216, 0320
Exquisit.....	0037	Fortress.....	0093
FNR.....	0102	Fraba.....	0037, 0370
Fenner.....	0009, 0374		
Ferguson.....	0005, 0037, 0073, 0109, 0190, 0192, 0193, 0238, 0287, 0335, 0343, 0560, 0625		

Codes for Television

Friac.....	0009, 0102, 0370, 0499	Genexxa.....	0009, 0163, 0218, 0493
Frontech.....	0009, 0163, 0217, 0247, 0264, 0363, 0448, 0474	Germanvox.....	0213
Fujitsu.....	0179, 0072, 0102, 0186, 0206, 0217, 0683, 0809	Gibralter.....	0017, 0030, 0019
Funai.....	0180, 0179, 0171, 0264, 0294, 0303, 0342, 1904	Gintai.....	0354, 0474, 0721
Futuretech.....	0180	GoldStar.....	0154, 0030, 0178, 0019, 0056, 0039, 0001, 0002, 0032, 0037, 0106, 0109, 0163, 0216, 0217, 0247, 0283, 0290, 0308, 0361, 0363, 0377, 0409, 0457, 0467
GBC.....	0009, 0213, 0218, 0374	Goldline.....	0337
GE.....	0047, 0051, 0451, 0180, 0282, 0030, 0178, 0021, 0055, 0027, 0029, 0092, 0135, 0174, 0279, 0560, 0747, 1147, 1347, 1454, 1907, 1917, 1919, 1922	Goldstar.....	1926
GEC.....	0037, 0043, 0072, 0163, 0205, 0217, 0361, 0516	Gooding.....	0487
GPM.....	0218	Goodmans.....	0179, 0009, 0032, 0035, 0036, 0037, 0072, 0217, 0218, 0235, 0264, 0335, 0343, 0360, 0371, 0374, 0480, 0487, 0499, 0516, 0560, 0624, 0634, 1900, 1909
Galaxi.....	0037, 0102	Gorenje.....	0370, 0421
Galaxis.....	0037, 0370	Gradiente.....	0053, 0056, 0170, 0392
Gateway.....	1755, 1756	Graetz.....	0163, 0361
Geloso.....	0009, 0213, 0363, 0374		
General.....	0186, 0590		
General Technic.....	0009		

Codes for Television

Granada.....	0037, 0045, 0072, 0108, 0146, 0208, 0217, 0226, 0339, 0356, 0363, 0473, 0502, 0516	Hantarex.....	0037, 0213, 0516
		Hantor.....	0037
		Harley Davidson.....	0179, 0043, 1904
		Harman/Kardon.....	0054, 0078
Grandin.....	0282, 0009, 0037, 0163, 0320, 0374, 0455, 0579, 0610	Harvard.....	0180, 0068
		Harwood.....	0009, 0032, 0037, 0412
		Havermy.....	0093
Grundig.....	0009, 0037, 0070, 0076, 0191, 0195, 0205, 0487, 0535, 0554, 0556, 0587, 0672, 0706, 1935	Hello Kitty.....	0451
		Hema.....	0009, 0217
		Hifivox.....	0196, 0198, 0399
		Hikona.....	0218, 0474
		Hinari.....	0179, 0039, 0009, 0036, 0037, 0211, 0218, 0235, 0283, 0355, 0487, 1908
Grunpy.....	0180, 0179	Hisawa.....	0282, 0218, 0400, 0455, 0610
HCM.....	0282, 0009, 0037, 0217, 0218, 0264, 0412, 0418	Hit.....	0087
HMV.....	0087	Hitachi.....	0165, 0030, 0178, 0145, 0019, 0179, 0056, 0016, 0039, 0009, 0027, 0032, 0036, 0037, 0038, 0043, 0044, 0072, 0092, 0095, 0097, 0105, 0109, 0151,
Haier.....	0768		
Halifax.....	0217		
Hallmark.....	0178		
Hampton.....	0216, 0217		
Hanimex.....	0294, 1908		
Hankook.....	0180, 0030, 0178, 0019, 0056, 0409, 0628		
Hanseatic.....	0282, 0009, 0037, 0217, 0320, 0361, 0377, 0394, 0428, 0519, 0556, 0661		

Codes for Television

0157, 0163,	0076, 0087,
0182, 0186,	0101, 0102,
0194, 0196,	0104, 0105,
0198, 0213,	0108, 0109,
0217, 0225,	0146, 0157,
0227, 0279,	0163, 0190,
0349, 0356,	0191, 0192,
0363, 0381,	0193, 0194,
0409, 0413,	0195, 0196,
0473, 0474,	0205, 0206,
0481, 0492,	0213, 0216,
0499, 0516,	0217, 0225,
0548, 0576,	0226, 0227,
0577, 0578,	0235, 0238,
0583, 0719,	0243, 0247,
0744, 1045,	0274, 0287,
1225, 1256,	0290, 0291,
1904	0292, 0294,
Hornyphone..... 0037	0303, 0320,
Hua Tun..... 0009	0327, 0343,
Huanyu..... 0216, 0374	0349, 0354,
Hyper..... 0009, 0216,	0356, 0361,
0217, 0247	0363, 0370,
Hypersonic..... 0361	0374, 0448,
Hypson..... 0282, 0037,	0505, 0512,
0264, 0400,	0516, 0535,
0455	0553, 0554,
IRT..... 0628	0556
ICE..... 0216, 0217,	ITS..... 0216, 0264,
0218, 0264,	0371
0371, 0556	ITT..... 0179, 0007,
ICeS..... 0216, 0218	0163, 0208,
IR..... 0093, 0007,	0283, 0339,
0010, 0011,	0346, 0349,
0012, 0032,	0361, 0473,
0033, 0035,	0480, 0548,
0036, 0037,	0567, 0610
0043, 0045,	ITV..... 0037, 0264
0070, 0072,	Iberia..... 0037
0073, 0074,	

Codes for Television

Imperial.....	0074, 0076, 0084, 0247, 0370, 0418	JVC.....	0463, 0053, 0036, 0069, 0094, 0160, 0169, 0182, 0190, 0192, 0193, 0218, 0371, 0418, 0606, 0653, 0683, 1923
Indesit.....	0213	Janeil.....	0046
Indiana.....	0037	Jean.....	0156, 0051, 0236, 0179, 0003, 0009, 0092, 0474, 0721
Infinity.....	0054	Jensen.....	0761, 0815, 0817, 1933
Ingelen.....	0163	KB Aristocrat.....	0163
Ingersol.....	0009	KEC.....	0180
Inkel.....	0571	KMC.....	0106
Inno Hit.....	0009, 0072, 0217, 0290, 0516	KTV.....	0180, 0030, 0039, 0183, 0185, 0217, 0280
Innova.....	0037	Kaisui.....	0282, 0009, 0037, 0216, 0217, 0218, 0455
Inteq.....	0017	Kamp.....	0216
Interbuy.....	0037, 0068, 0264	Kapsch.....	0104, 0163, 0206, 0361
Interfunk.....	0012, 0037, 0087, 0163, 0247, 0275, 0327, 0361, 0512	Karcher.....	0282, 0102, 0421, 0610
Internal.....	0037	Kasui.....	0282
Intervision.....	0282, 0037, 0068, 0102, 0217, 0218, 0247, 0264, 0377, 0394, 0448, 0455, 0486, 0487, 0519	Kathrein.....	0556
Irradio.....	0218, 0247, 0290, 0371	Kawasho.....	0158, 0216, 0308
Isukai.....	0282, 0037, 0218, 0455	Kaypani.....	0052
JBL.....	0054		
JCB.....	0000		
JEC.....	0502		

Codes for Television

Kendo.....	0037, 0102, 0235, 0247, 0411, 0428, 0610	LG.....	0060, 0030, 0178, 0019, 0056, 0001, 0003, 0004, 0032, 0037, 0038, 0108, 0409, 0442, 0474, 0644, 0700, 0714, 1934
Kennedy.....	0206, 0213, 0435	LXI.....	0047, 0054, 0154, 0156, 0178, 0148, 0747
kenwood.....	0030, 0019	LaSAT.....	0486
Kingsley.....	0216	Lenco.....	0104
Kioto.....	0706	Leyco.....	0037, 0072, 0264, 0294, 0579
Kloss.....	0024, 0046, 0078	Liesen & Tter.....	0037
Kneissel.....	0037, 0238, 0259, 0292, 0374, 0411, 0435, 0610	Liesenkotter.....	0037, 0327
Kolin.....	0180, 0053, 0033, 0036, 0108, 0474	Lifetec.....	0037, 0218, 0374, 0519
Kolster.....	0037	Lloyd's.....	1904
Konka.....	0218, 0371, 0628, 0632, 0638, 0703, 0707, 0725, 0726, 1939, 1940	Lloytron.....	0032
Korpel.....	0037	Loewe.....	0037, 0087, 0136, 0292, 0512, 0633, 0694
Korting.....	0087, 0320, 0421	Logik.....	0016, 0001, 0005, 0011, 0033, 0193
Kosmos.....	0037	Luma.....	0206, 0259, 0363
Koyoda.....	0009	Lumatron.....	0217
Kraking.....	0238	Luxman.....	0056
Kuba Electronic.....	0303	Luxor.....	0163, 0194, 0208, 0290, 0349, 0356, 0361, 0363, 0548
Kyoshu.....	0032, 0412		
Kyoto.....	0032, 0163, 0385		
L&S Electronic.....	0808		

Codes for Television

M Electronic.....	0009, 0037, 0057, 0068, 0104, 0105, 0109, 0163, 0216, 0217, 0247, 0287, 0346, 0374, 0411, 0480, 0492, 0512	Marantz.....	0054, 0030, 0037, 0556
MEI.....	0185	Marelli.....	0087
MGA.....	0150, 0030, 0178, 0019, 0155, 1907	Mark.....	0037
MTC.....	0060, 0030, 0019, 0056, 0049, 0091, 0185, 0216, 0349, 0370, 0512	Maruman.....	0391, 0627
MTEC.....	0032, 0272	Matsui.....	0009, 0011, 0033, 0035, 0036, 0037, 0072, 0163, 0177, 0191, 0195, 0208, 0211, 0217, 0235, 0272, 0294, 0335, 0354, 0355, 0363, 0371, 0433, 0443, 0455, 0487, 0516, 0579
Magnadyne.....	0087, 0102, 0247, 0516	Matsushita.....	0250, 0161, 0650
Magnafon.....	0073, 0076, 0102, 0213, 0216, 0516	McMichael.....	0043
Magnasonic.....	1913, 1928	Mediator.....	0012, 0037
Magnavox.....	0054, 0030, 0179, 0020, 0024, 0028, 0036, 0096, 0186, 0187, 0230, 0386, 1254, 1454, 1904, 1913, 1931	Medion.....	0037, 0668, 0808, 1037
Magnin.....	1907	Megas.....	0610
Magnum.....	0037, 0648	Megatron.....	0178, 0145, 0003
Majestic.....	0016, 0015	Melvox.....	0400
Manesth.....	0035, 0037, 0217, 0235, 0264, 0294, 0320	Memorex.....	0154, 0250, 0463, 0150, 0178, 0179, 0056, 0016, 0009, 0106, 1037, 1911, 1920, 1924, 1926, 1927
		Memphis.....	0337, 0385
		Mercur.....	0001

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Metz.....	0037, 0087, 0213, 0275, 0367, 0388, 0447, 0535, 0554, 0746	Multitech.....	0180, 0009, 0049, 0076, 0102, 0216, 0217, 0247, 0363, 0486
Micromaxx.....	0808	Murphy.....	0039, 0072, 0163, 0216, 0474
Microstar.....	0808	Myryad.....	0556
Midland.....	0047, 0017, 0051, 0039, 0032, 0135, 0747	NAD.....	0156, 0178, 0361, 0866
Minerva.....	0070, 0487, 0535, 0554	NEC.....	0154, 0156, 0051, 0165, 0030, 0178, 0019, 0056, 0009, 0036, 0046, 0170, 0186, 0320, 0381, 0455, 0474, 0497, 0704, 1704
Minoka.....	0412	NEI.....	0037, 0337, 0371
Minutz.....	0021	NTC.....	0092
Mirror.....	1900	Naiko.....	0606
Mitsubishi.....	0154, 0250, 0093, 0236, 0180, 0150, 0030, 0178, 0019, 0179, 0056, 0007, 0014, 0033, 0036, 0037, 0087, 0098, 0108, 0155, 0331, 0354, 0358, 0381, 0474, 0512, 0535, 1917	Nakimura.....	0037, 0374
Mivar.....	0216, 0290, 0291, 0292, 0516, 0609	Nakio.....	0480
Monaco.....	0009	Naonis.....	0363
Motion.....	0076	National.....	0226
Motorola.....	0093, 0055	Neckermann.....	0037, 0087, 0191, 0213, 0247, 0320, 0327, 0349, 0363, 0370, 0411, 0418, 0505, 0554, 0556
Multibroadcast.....	0193	Nesco.....	0179, 0247
		Netsat.....	0037
		Network.....	0032, 0337

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Neufunk.....	0037, 0556	Oceanic.....	0163, 0208, 0361, 0548, 0567
New Tech.....	0217, 0343	Okano.....	0009, 0037, 0264, 0370
Newave.....	0093, 0178, 0009, 0092, 0161, 0721	Omega.....	0264
Nicamagic.....	0216	On Command.....	0531
Nikkai.....	0009, 0032, 0035, 0036, 0037, 0072, 0216, 0217, 0218, 0264, 0337	Onking.....	0280
Nikko.....	0030, 0178, 0092	Onwa.....	0180, 0102, 0218, 0371, 0433, 0581
Nisato.....	0391	Optimus.....	0154, 0250, 0166, 0650, 1913, 1924, 1927
Noblex.....	0430	Optonica.....	0093, 0165
Noblisko.....	0070, 0076, 0102, 0216	Orion.....	0236, 0463, 0179, 0037, 0177, 0211, 0235, 0294, 0320, 0355, 0443, 0474, 0516, 0531, 0655, 1905, 1911, 1929
Nogamatic.....	0196	Online.....	0037, 0218
Nokia.....	0179, 0163, 0208, 0320, 0339, 0346, 0349, 0361, 0374, 0473, 0480, 0548, 0567, 0606, 0610, 0631, 1912	Ormond.....	0385
Norcent.....	0748, 0824	Orsowe.....	0516
Nordmende.....	0109, 0195, 0196, 0198, 0213, 0287, 0343, 0399, 0560	Osaki.....	0032, 0037, 0072, 0217, 0218, 0264, 0272, 0355, 0374, 0412, 0474, 0493
Noshi.....	0018	Osio.....	0037
Novak.....	0012	Oso.....	0218
Novatronic.....	0037, 0105, 0531	Osume.....	0032, 0036, 0037, 0072, 0157, 0218, 0474

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Otto Versand.....	0093, 0010, 0036, 0037, 0109, 0191, 0213, 0217, 0226, 0235, 0247, 0294, 0303, 0320, 0343, 0349, 0361, 0505, 0512, 0535, 0554, 0556	Penney.....	0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0018, 0039, 0002, 0003, 0027, 0032, 0110, 0135, 0149, 0747, 1347, 1907, 1919, 1926
Pael.....	0216	Perdio.....	0037, 0163, 0320
Palladium.....	0363, 0370, 0411, 0418	Phase.....	0032
Panama.....	0217, 0247, 0264	Philco.....	0054, 0463, 0180, 0030, 0178, 0145, 0019, 0056, 0020, 0028, 0032, 0037, 0074, 0076, 0084, 0087, 0096, 0186, 0213, 0247, 0278, 0370, 0409, 0418, 0474, 0628, 0747, 1911
Panasonic.....	0054, 0250, 0051, 0055, 0037, 0126, 0161, 0163, 0213, 0214, 0226, 0274, 0338, 0340, 0361, 0367, 0516, 0548, 0650, 1650, 1919, 1924, 1927, 1930, 1941, 1946, 1947	Philips.....	0054, 0000, 0051, 0030, 0178, 0019, 0056, 0007, 0012, 0020, 0024, 0028, 0032, 0037, 0043, 0087, 0092, 0108, 0186, 0187, 0193, 0278, 0332, 0343, 0374, 0409, 0423, 0474, 0554, 0556, 0595, 0721, 0747, 1454
Panavision.....	0037, 0411		
Pathe Cinema.....	0163, 0213, 0216, 0238, 0320		
Pathe Marconi.....	0196, 0198, 0205, 0399		
Pausa.....	0009		

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Phoenix.....	0087, 0216, 0320, 0385, 0486	Protech.....	0009, 0037, 0102, 0217, 0247, 0264, 0337, 0418, 0668
Phonola.....	0012, 0037, 0087, 0193, 0216	Proton.....	0030, 0178, 0039, 0001, 0003, 0009, 0031, 0052, 0149, 0466, 0474, 0644
Pilot.....	0030, 0019, 0039	Pulsar.....	0017, 0019
Pioneer.....	0037, 0038, 0109, 0163, 0166, 0172, 0287, 0361, 0423, 0428, 0486, 0679, 0760, 0866	Pye.....	0007, 0012, 0037, 0087, 0554, 0556
Plantron.....	0009	Quasar.....	0250, 0051, 0165, 0055, 0247, 0474, 0650, 1919, 1924
Playsonic.....	0217	Quelle.....	0010, 0011, 0037, 0070, 0074, 0084, 0104, 0200, 0213, 0327, 0328, 0361, 0505, 0512, 0535, 0554
Polytron.....	0697	Questa.....	0032, 0036
Portland.....	0019, 0039, 0092, 0374	Questar.....	0032
Prandoni-Prince.....	0213, 0361, 0363, 0516	R-Line.....	0037
Precision.....	0217	RBM.....	0070
Prima.....	0068, 0264, 0474, 0761, 0815, 0817, 1933		
Princeton.....	0700, 0717		
Prinz.....	0194		
Prism.....	0051		
Profex.....	0009, 0076, 0163, 0361, 0363		
Profi.....	0009		
Profitronic.....	0037, 0102		
Proline.....	0072		
Proscan.....	0047, 0747, 1922		
Prosonic.....	0037, 0579		

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RCA.....	0047, 0000, 0030, 0178, 0019, 0018, 0029, 0038, 0090, 0092, 0135, 0174, 0278, 0679, 0747, 1047, 1147, 1247, 1347, 1447, 1454, 1547, 1907, 1917, 1919, 1922, 1948	Redstar.....	0037
RFT.....	0072, 0087, 0428	Reflex.....	0037
RTF.....	0087	Reoc.....	0714
Radialva.....	0037, 0218, 0337	Revox.....	0037
RadioShack.....	0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039, 0032, 0037, 0409, 0747, 1904, 1920	Rex.....	0163, 0206, 0259, 0264, 0363, 0411
Radiola.....	0012, 0037, 0217	Rhapsody.....	0183, 0185, 0216
Radiomarelli.....	0037, 0087, 0247, 0516	Roadstar.....	0009, 0037, 0218, 0264, 0418
Radiotone.....	0009, 0037, 0264, 0428, 0579	Robotron.....	0087
Rank Arena.....	0036	Rowa.....	0698, 0712
Realistic.....	0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039, 0032	Roxy.....	0448
Recor.....	0037	Royal Lux.....	0412
Rediffusion.....	0361, 0548	Runco.....	0017, 0030, 0497, 0603
		SBR.....	0007, 0012, 0037, 0043, 0193
		SEG.....	0009, 0036, 0037, 0076, 0102, 0217, 0264, 0668
		SEI.....	0010, 0087, 0102, 0177, 0206, 0213, 0294, 0516
		SEI-Sinudyne.....	0037, 0213
		SKY.....	0037
		SSS.....	0180, 0019

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Saba.....	0087, 0109, 0163, 0196, 0198, 0205, 0213, 0287, 0335, 0343, 0361, 0399, 0498, 0516, 0548, 0560, 0625	Samsung.....	0154, 0060, 0030, 0178, 0019, 0179, 0056, 0039, 0009, 0032, 0037, 0072, 0090, 0092, 0110, 0208, 0216, 0217, 0264, 0278, 0290, 0329, 0370, 0409, 0427, 0448, 0474, 0482, 0519, 0556, 0587, 0618, 0644, 0702, 0747, 0766, 0812, 1903
Saccs.....	0238		
Sagem.....	0455, 0610		
Saisho.....	0009, 0011, 0033, 0177, 0211, 0217, 0235, 0264, 0354, 0516		
Salora.....	0163, 0194, 0290, 0349, 0356, 0361, 0363, 0516, 0548	Samsux.....	0039
		Sandra.....	0216, 0217
		Sansei.....	0451
Sambers.....	0076, 0102, 0213, 0516	Sansui.....	0463, 0037, 0655, 0706, 1904, 1911, 1929
Sampo.....	0154, 1755, 0093, 0030, 0178, 0039, 0009, 0032, 0036, 0052, 0092, 0110, 0171, 0474, 0650, 0700, 0721	Sanyo.....	0154, 0180, 0011, 0036, 0045, 0068, 0072, 0088, 0104, 0107, 0108, 0146, 0157, 0159, 0208, 0213, 0216, 0217, 0232, 0280, 0339, 0370, 0376, 0381, 0424, 0474, 0484, 0799, 1907
		Sanyong.....	0032
		Schaub Lorenz.....	0361

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Schneider.....	0012, 0037, 0057, 0217, 0218, 0247, 0259, 0303, 0336, 0361, 0371, 0394, 0519, 0556, 0668, 1137, 1904	Sharp.....	0093, 0165, 0030, 0039, 0032, 0036, 0153, 0157, 0220, 0256, 0294, 0386, 0409, 0474, 0491, 0516, 0589, 0650, 0688, 0689, 0787, 0818, 1093, 1193, 1917
Scimitsu.....	0019	Shen Ying.....	0179, 0003, 0009, 0092, 0474
Scotch.....	0178	Sheng Chia.....	0093, 0236, 0179, 0009, 0033, 0474
Scotland.....	0163	Shintoshi.....	0037
Scott.....	0236, 0180, 0178, 0019, 0179	Shogun.....	0019
Sears.....	0047, 0054, 0154, 0156, 0178, 0179, 0056, 0015, 0146, 0148, 0149, 0159, 0171, 0747, 1904, 1926	Shorai.....	0179, 0294
Seleco.....	0163, 0206, 0259, 0363, 0411	Siarem.....	0087, 0102, 0213, 0516
Semivox.....	0180	Siemens.....	0032, 0037, 0146, 0157, 0191, 0195, 0200, 0213, 0327, 0328, 0535, 0554
Semp.....	0156	Signature.....	0016
Sencora.....	0009	Silva.....	0216
Sentra.....	0035, 0218, 0283	Silver.....	0179, 0036, 0361
Serino.....	0216, 0455, 0610	Simpson.....	0186, 0187
		Singer.....	0087, 0102
		Sinu.....	0102

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Sinudyne.....	0010, 0087, 0102, 0177, 0206, 0213, 0235, 0294, 0516	Ssangyong.....	0009, 0032
Skantic.....	0356	Stag.....	0032
Skygiant.....	0180	Standard.....	0009, 0037, 0217, 0218, 0320, 0374
Skysonic.....	0696	Starlite.....	0180
Skyworth.....	0037	Stenway.....	0282, 0218
Solavox.....	0032, 0072, 0163, 0361, 0548	Stern.....	0163, 0206, 0259, 0264, 0363, 0411
Sonitron.....	0208, 0339, 0370	Strato.....	0037, 0264
Sonoko.....	0282, 0009, 0037	Stylandia.....	0217
Sonolor.....	0163, 0208, 0361, 0567	Sunkai.....	0294, 0355, 0455, 0610
Sontec.....	0009, 0037, 0294, 0370	Sunstar.....	0009, 0037, 0371
Sony.....	0000, 0010, 0011, 0036, 0080, 0102, 0111, 0505, 0650, 0651, 1010, 1505, 1651, 1904, 1925	Sunwood.....	0037
Sound & Vision.....	0102, 0374	SuperTech.....	0009, 0037, 0216
Soundesign.....	0180, 0178, 0179, 0186	Superla.....	0516
Soundwave.....	0037, 0320, 0418	Supra.....	0056, 0039, 0009
Sowa.....	0156, 0051, 0060, 0178, 0036, 0092, 0226, 0338, 0474	Supre-Macy.....	0046
Spectricon.....	0003, 0137	Supreme.....	0000
Squareview.....	0171	Susumu.....	0218, 0474
		Sylvania.....	0054, 0030, 0020, 0028, 0065, 0096, 0171, 0186, 0381, 1931, 1944
		Symphonic.....	0180, 0171, 1904, 1913
		Synco.....	0000, 0451, 0093, 0060, 0178, 0036, 0092, 0474
		Sysline.....	0037

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Sytong.....	0216	Teac.....	0282, 0009, 0037, 0264, 0412, 0418, 0455, 0624, 0668, 0698, 0706, 0712, 0721, 1037, 1437, 1904, 1909, 1913, 1932, 1949
T + A.....	0447	Tec.....	0009, 0217, 0247, 0259, 0337, 0471, 0474
TCM.....	0808	Technema.....	0320
TMK.....	0178, 0056, 0177	Technics.....	0250, 0051, 0650
TNCi.....	0017	Technol Ace.....	0179
TVS.....	0463	Technovox.....	0007
TVTEXT 95.....	0556	Techwood.....	0051, 0056, 0003
Tacico.....	0178, 0179, 0009, 0092, 0474	Teco.....	0051, 0093, 0178, 0009, 0036, 0068, 0092, 0218, 0264, 0280, 0474, 0653
Tactus.....	0272	Teknika.....	0054, 0180, 0150, 0060, 0019, 0179, 0056, 0016, 0039, 0092, 0186
Tai Yi.....	0009	Teleavia.....	0196, 0205, 0343, 0399
Tandberg.....	0367		
Tandy.....	0093, 0039, 0072, 0163, 0217, 0218		
Tashiko.....	0032, 0033, 0036, 0043, 0092, 0146, 0163, 0216, 0217, 0363, 0650, 0721		
Tatung.....	0054, 0154, 0156, 0051, 0060, 0055, 0003, 0009, 0011, 0036, 0037, 0049, 0072, 0217, 0272, 0338, 0396, 0474, 0516, 0553, 0621		

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Telefunken.....	0056, 0005, 0037, 0073, 0074, 0084, 0101, 0109, 0196, 0213, 0262, 0335, 0343, 0471, 0486, 0498, 0566, 0625, 0702	Thomson.....	0037, 0109, 0196, 0198, 0205, 0287, 0335, 0343, 0349, 0399, 0471, 0560, 0625, 1447
Telegazi.....	0037	Thorn.....	0005, 0035, 0037, 0072, 0073, 0074, 0084, 0104, 0190, 0192, 0193, 0238, 0272, 0278, 0335, 0343, 0361, 0374, 0499, 0505, 0512, 0535, 0553
Telemeister.....	0037, 0320	Thorn-Ferguson.....	0343
Telesonic.....	0037	Tokai.....	0009, 0037, 0163, 0337, 0448
Telestar.....	0037, 0579	Tokyo.....	0035, 0329, 0448
Teletech.....	0009, 0037, 0337	Tomashi.....	0282
Teleton.....	0036, 0186, 0206, 0217, 0259, 0349, 0363	Toshiba.....	0154, 0156, 0060, 0035, 0036, 0070, 0102, 0109, 0149, 0161, 0243, 0381, 0502, 0508, 0509, 0553, 0618, 0644, 0650, 0718, 1256, 1508, 1704, 1918, 1935, 1936, 1945
Televideon.....	0216, 0320	Tosonic.....	0185
Temco.....	0294	Totevision.....	0039
Tennessee.....	0037	Trans Continens.....	0217
Tensai.....	0009, 0037, 0104, 0105, 0217, 0218, 0247, 0294, 0320, 0371, 0374, 0377		
Tenson.....	0320		
Tera.....	0030, 0031, 0149, 0466, 0474		
Texet.....	0009, 0216, 0218, 0374		
Thomas.....	1904		

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Transonic.....	0698, 0712	Univox.....	0037, 0087, 0163, 0238, 0337
Trical.....	0157	Vector Research.....	0030
Trident.....	0516	Vestel.....	0037, 0217
Tristar.....	0193, 0218	Vibrant.....	0272
Triumph.....	0177, 0243, 0346, 0516, 0556	Victor.....	0250, 0053, 0036, 0160, 0376, 0650, 0653
Tsoschi.....	0282	Video Concepts.....	0098
Tuntex.....	0030, 0009, 0092, 0474	Videologic.....	0216, 0218
Uher.....	0037, 0206, 0303, 0320, 0374, 0418, 0486	Videosat.....	0247
Ultra.....	0192, 0391	Videotechnic.....	0217, 0320
Ultravox.....	0037, 0087, 0102, 0213, 0216, 0247	Videoton.....	0356
Unic Line.....	0037, 0473	Vidikron.....	0054, 0242
United.....	0037	Vidtech.....	0178, 0019, 0036
Universal.....	0027	ViewSonic.....	1755
Universum.....	0009, 0010, 0011, 0032, 0036, 0037, 0070, 0074, 0076, 0104, 0105, 0146, 0157, 0170, 0177, 0213, 0217, 0247, 0264, 0290, 0294, 0327, 0337, 0346, 0361, 0370, 0411, 0418, 0421, 0474, 0480, 0492, 0505, 0512, 0535, 0554, 1901	Vision.....	0217, 0320
		Vistar.....	0206
		Voxson.....	0087, 0163, 0363, 0418
		Waltham.....	0037, 0109, 0217, 0356, 0385, 0418
		Wards.....	0054, 0165, 0030, 0178, 0021, 0019, 0179, 0056, 0016, 0020, 0027, 0028, 0029, 0080, 0096, 0111, 0174, 0866

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Watson.....	0009, 0037, 0213, 0218, 0320, 0394, 0519, 0579
Watt Radio.....	0102, 0213, 0216
Waycon.....	0156
Wega.....	0036, 0037, 0087
Wegavox.....	0009
Weltblick.....	0320
White Westinghouse.	0463, 0037, 0186, 0216, 0320, 0337, 0623, 1909
Windstar.....	0282
Xrypton.....	0037
Yamaha.....	0030, 0019, 0769
Yamishi.....	0282, 0217, 0455
Yapshe.....	0250
Yokan.....	0037
Yoko.....	0009, 0037, 0217, 0218, 0264, 0339, 0421
Zanussi.....	0206, 0217, 0363
Zenith.....	0017, 0463, 0178, 0016, 0092, 0624, 1904, 1909, 1911, 1929
Zenor.....	0339
Zonda.....	0003





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