

Channel Master[®]

DVR⁺
User's Guide



Record without limitations or fees.

Remote Control



Programming the Remote Control

The remote is capable of controlling basic functions of most TVs and audio devices (volume, mute, power, input). To program the remote control to operate your TV or audio device, you may use the Easy Scan or Code Entry methods described on the following pages.

Note 1: The **OFF/ON** button is actually two controls: The left side is **OFF** and the right side is **ON**.

Note 2: If you wait more than 10 seconds between any step in this programming procedure, the setup will time out and you'll need to restart the procedure.

Easy Scan Programming Method 1

If your brand of TV or audio device is listed in the table below in step 4, follow this procedure to program your remote. You can program only one device at a time.

- 1 Turn on your TV or audio device.
- 2 Press and hold the **SETUP** button until the **OFF/ON** button flashes twice, then release the button.
- 3 To program the remote to control your TV, press the **Red (TV)** button. Or, to program the remote to control your audio device, press the **Green (AUD)** button. The **OFF/ON** button turns red.
- 4 In the table to the right, locate the number that's associated with your device (e.g., #8 if you have a Sony TV).
- 5 Point the remote at the TV or audio device you want to program. Using the numeric keypad, hold down the button corresponding to the number in the table for your device.
- 6 When your TV or audio device turns off, immediately release the button. The **OFF/ON** button flashes twice to indicate that the code has been programmed successfully for your TV or audio device.
- 7 Point the remote toward the device and press the **ON** button to power on your device and confirm that the remote now controls your device.



Button Number	TV	Audio
1	Insignia	Bose
2	LG	Denon
3	Mitsubishi	LG
4	Panasonic	Onkyo
5	Philips/Magnavox	Panasonic
6	Samsung (default)	Philips
7	Sharp	Pioneer
8	Sony	Samsung
9	Toshiba	Sony
0	Vizio	Yamaha



Easy Scan Programming Method 2

If your brand of TV or audio device is not listed in the table on the previous page, follow this procedure to program your remote. You can program only one device at a time.

- 1 Turn on your TV or audio device.
- 2 Press and hold the **SETUP** button until the **OFF/ON** button flashes twice, then release the button.
- 3 To program the remote to control your TV, press the **Red (TV)** button. Or, to program the remote to control your audio device, press the **Green (AUD)** button. The **OFF/ON** button turns red.

- 4 Point the remote at the TV or audio device you want to program. Hold down the **OK/SELECT** button until your TV turns off, then immediately release the button.

Once the code is transmitted (it may take up to 2 minutes), the **OFF/ON** button flashes twice to indicate that the code has been programmed successfully for your TV or audio device.

- 5 Point the remote toward the device and press the **ON** button to power on your device and confirm that the remote now controls your device.



Code Entry Programming Method

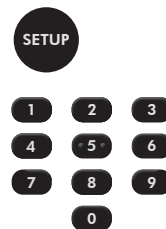
Follow this procedure to program the remote with a 5-digit code.

Note: Where several codes are listed for a manufacturer, it may be necessary to repeat the sequence below with each code until the correct one is found.

- 1 To control your TV, press the **Red (TV)** button. To control your audio device, press the **Green (AUD)** button. The **OFF/ON** button flashes once.



- 2 Press and hold the **SETUP** button until the **OFF/ON** button flashes twice, then release the button.



- 3 Using the numeric keypad, enter the 5-digit code within 10 seconds.

Note: Remote codes for some popular TV brands are listed below. For audio devices or if your TV brand isn't listed below, please try the Easy Scan methods described on the previous pages or consult the complete remote code list at the end of this chapter. For additional information on remote codes and programming, visit channelmaster.com/support.

Remote Code: ___ ___ ___ ___ ___

- 4 After the fifth digit entry, the **OFF/ON** button blinks twice to indicate that the code has been programmed successfully for your TV or audio device. In the event of an error, the **OFF/ON** button flashes four times, and you will need to restart this procedure.



Popular TV Remote Codes

For a complete list of remote codes for TV and audio devices, see the *Remote Codes* section on page 43.

Insignia	10463, 10171, 12751, 12417, 12088, 12049, 11963, 11892	Samsung	10154, 10156, 10093, 10060, 10702, 10178, 10030, 10556, 10037, 10587, 10618, 12042, 11618, 12051, 11597, 10814, 12557, 10766, 10208, 10179, 10092, 10090, 10039, 10009
LG	10017, 10060, 10178, 10030, 11447, 10556, 10037, 10714, 10715, 10442, 10856, 11149, 11325, 11423, 10039, 11768, 12057, 12359, 12569	Sharp	10093, 10053, 10030, 10009, 10039, 10818, 10851, 10854, 11407, 11423, 12214, 12495, 12676
Mitsubishi	10154, 10250, 10093, 10180, 10150, 11250, 10178, 10030, 10556, 10037, 11037, 10179, 10512, 10868, 11797, 12313	Sony	10810, 10834, 11300, 11685, 12571, 12736
Panasonic	10054, 10250, 10051, 10037, 10508, 10208, 10853, 11290, 11410, 11480, 11636, 12240, 12264, 12477	Toshiba	10154, 10156, 10093, 10060, 10145, 10195, 11037, 10618, 10508, 12676, 12233, 11935, 11652, 11556, 11524, 11369, 11343, 11325, 10832, 10767, 10109, 10009
Philips	10054, 10017, 10051, 10178, 10030, 10171, 11454, 10556, 10037, 11756, 11850, 11866, 11867, 12227, 12622, 12665, 12720, 12813, 11394, 11046, 10810, 10639, 10605, 10512, 10186, 10092, 10009	Vizio	10054, 10864, 10885, 11756, 11758, 12116, 12209, 12512, 12707

Using the Remote Control

Controlling the Volume for an Audio Device

Follow this procedure to program the Volume (+ and -) buttons on the remote to control your audio device's volume instead of your TV's volume.

Note: Before following this procedure, you must first program your remote to control your audio device, as described on the previous pages in this section.

- 1 Press and hold the **SETUP** button until the **OFF/ON** button blinks twice, then release the button.
- 2 Press the **VOL+** button.

- 3 Press the **Green (AUD)** button.

- 4 Press the **AUDIO CC** button if you'd like to set up audio options, including closed captions.

If you wish to revert volume control back to your TV, repeat this procedure and press the **Red (TV)** button instead of the **Green (AUD)** button in step 3.



Controlling the Input for an Audio Device

Follow this procedure to program the INPUT button on the remote to control your audio device's inputs instead of your TV's inputs.

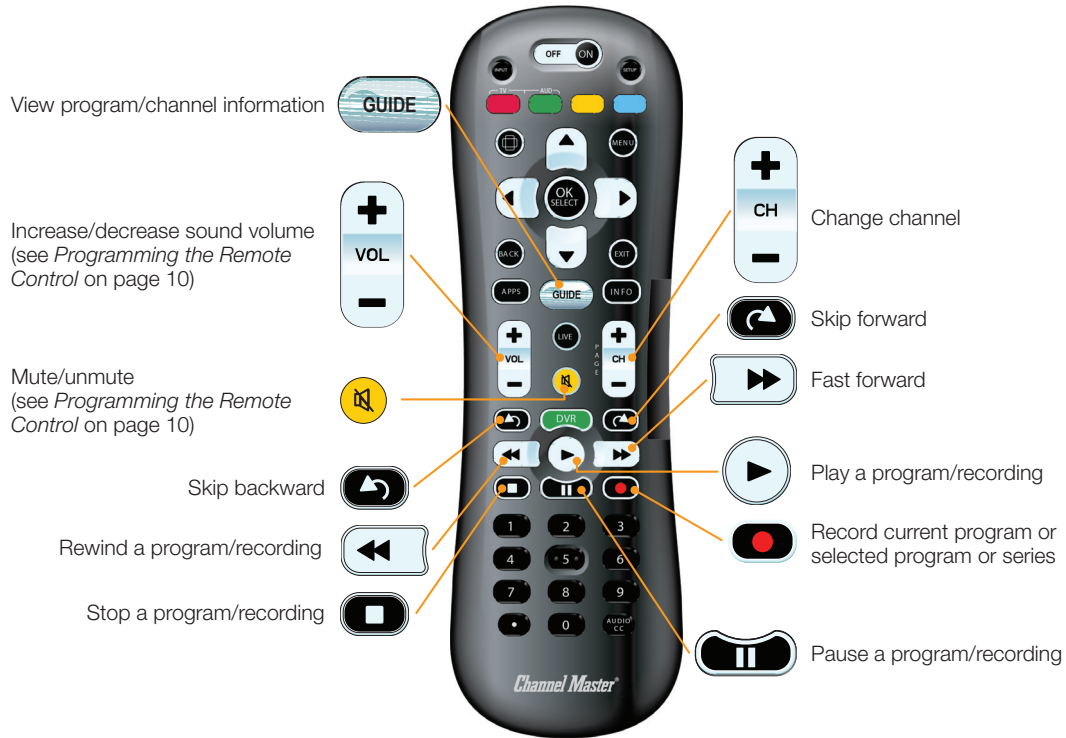
Note: Before following this procedure, you must first program your remote to control your audio device, as described on the previous pages in this section.

- 1 Press and hold the **SETUP** button until the **OFF/ON** button blinks twice, then release the button.
- 2 Press the **INPUT** button.
- 3 Press the **Green (AUD)** button.

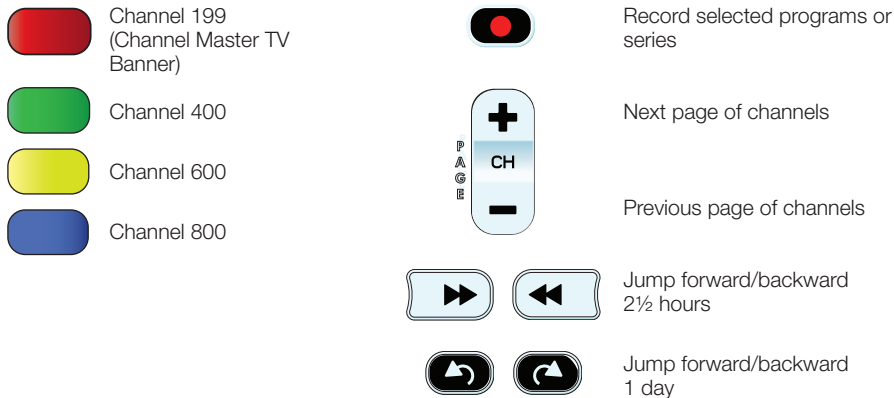
If you wish to revert input control back to your TV, repeat this procedure and press the **Red (TV)** button instead of the **Green (AUD)** button in step 3.



Watching TV



Navigating the Program Guide



Remote Control

Why won't the OFF and ON buttons turn my TV and audio device on and off independently?

Independent control of TV and audio devices is not supported. When programmed to the TV or audio devices, the remote will send the power ON/OFF command to all three devices (DVR+, TV, and AUD) simultaneously.

Why is my remote turning on and off my device out of sync?

The OFF/ON button uses a programming sequence called a macro, which is preprogrammed to send all power codes to all devices simultaneously. Sometimes one of the devices may already be in the opposite power state, which could cause them to be out of sync with the remote. To resolve this issue, manually turn off all devices from the front panel button on each device and then press the ON button on your remote once again.

Why don't the Red (TV) and AUDIO CC buttons do anything other than setup?

The DVR+ remote has a mode-less design that eliminates confusion of being in the wrong mode during use. When a TV is programmed, the ON/OFF, Volume, Mute, and INPUT buttons are the only ones that control TV functions. When an audio device is programmed, the OFF/ON buttons are the only ones that control functions of the actual audio device.

Can I turn off the backlighting on the remote?

No. If you're concerned about battery consumption, we've designed the LED backlighting to stay illuminated for only 3–4 seconds after a key is pressed and to use very minimal power when illuminated.

Why is my DVR+ running sluggishly and taking several seconds to respond to the remote control?

Much like a PC, background processing with the DVR+ can cause a delay in response time. Channel Master is continually working to improve response times. It's also important to note that when guide data is updating, you will experience a small delay in remote control responsiveness. Please wait for the download to complete for the DVR+ to regain responsiveness.

If the delays are upwards to 15 seconds or greater, your DVR+ software may be corrupt. If this is the case, follow the steps below to perform a factory reset:

- 1 Press **MENU** on the remote, then select *SETTINGS » Factory Reset*.
- 2 On the Factory Reset Options pop-up, select *Default Factory Reset* and wait for the factory reset to complete.
- 3 If your DVR+ is connected to the Internet, wait about 15 minutes for your guide data to download completely.

Remote Codes

This section contains the manufacturer codes for programming your DVR+ remote control to operate your TV and audio devices. If your TV or audio brand is not listed or if the codes listed for it do not work, the DVR+ remote may not be able to control your TV or audio device. Please note that in some cases, codes may operate some but not *all* of the buttons shown in this guide.

TV Remote Codes

3M 10724

A.R. Systems 10556, 10037, 11696

Accent 10037, 10009

Accurian 11803

Acer 11339, 11403, 11509

Acoustic Solutions 11037, 11149, 11523, 11545, 11667, 11727, 11865, 12676

Action 10873

Adcom 10284

Addison 10092

ADL 11217, 12022, 12195

Admiral 10093, 10463, 10179

Advent 10761, 10876, 11613

AEG 11037, 11163, 11324, 11556, 12166, 12197, 12239, 12475

Aiko 10037, 10009, 10092, 10880

Aim 10037, 10499

Airis 11531, 11833, 12022, 12195

Akai 10702, 10765, 10178, 10030, 10556, 10037, 10714, 10715, 12676, 12232, 11935, 11865, 11727, 11688, 11676, 11675, 11537, 11413, 11326, 11259, 11207, 10480, 10284, 10208, 10009

Akashi 10009

Akiba 10037

Akira 10418, 12241, 12333

Akito 10037

Akura 10171, 10037, 10714, 10668, 11037, 12289, 12239, 11983, 11847, 11846, 11820, 11770, 11709, 11687, 11667, 11585, 11556, 11498, 11363, 10009

Aaron 10179

Alba 10037, 10714, 10668, 11037, 10587, 10009, 10418, 10443, 10480, 11585, 11865, 11935, 12104, 12676

Albatron 10843

Alien 11037

All-Tel 10865

Allstar 10037

America Action 10180

Amitech 11281, 11849, 12107

Amoi 12342

Amstrad 10171, 10037, 11037, 10009, 11820

Anam 10250, 10180, 10037, 10009

Anam National 10250, 10037

Andersson 11149, 11163, 11585

Anglo 10009

Anhua 10051

Anitech 10037, 10009

Ansonic 10037, 10668, 10009, 10284, 10292, 11437, 11846

AOC 10451, 10093, 10180, 10060, 10178, 10030, 10625, 12214, 12111, 12087, 12014, 11590, 11589, 11588, 11365, 11089, 10179, 10092, 10009

Aomni 11623

Apex Digital 10748, 10765, 10767, 10879, 10890, 11217, 12397

Apollo 12239

Apro 11846

AquaVision 11606

Arc En Ciel 10109

Ardem 10037, 10714

Arena 10037

Aristona 10556, 10037

ART 11037

Art Mito 11585, 11820

ASA 10179

Asambal 11046

Asberg 10037

Asora 10009

Astar 11531, 11738

Astra 10037

Asus 12175, 13340

Atec 11606

Atlantic 10037

Atori 10009

Audinac 10180

Audiosonic 10037, 10714, 10715, 10009, 10109, 10865, 11675, 11703, 11983, 12104

Audiovox 10451, 10180, 12513, 11952, 11951, 11937, 11865, 11803, 11769, 11766, 11564, 11284, 11276, 10875, 10846, 10802, 10623, 10092

Aumark 10060

AUO 11591

Auriga 11531

Autovox 12169, 12172

Aventura 10171

Aviois 11634

Avol 11820

Awa 10451, 10009, 11376, 12039, 12241, 12480

Axion 11937

Axxent 10009

Axxon 10714

Baier 10876, 11372, 12239

Baihe 10009

Baile 10009, 10661

Baird 10109, 10208, 11196, 12212

Baosheng 10009

Barco 10556

Basic Line 10556, 10037, 10668, 11037, 10009, 11149, 11163

Baur 10037, 10195, 10512

Baysonic 10463, 10180

BBK 11523, 11741

Beaumarck 10178

Beijing 10009, 10208, 10661

Beko 10037, 10714, 10715, 10418, 10808, 11652, 12125, 12200

Bell & Howell 10017, 10154

Belson 12032, 12241

Belstar 11037

BenQ 11032, 11315, 11523, 11562, 11756, 11853

Bensten 11326, 11888, 11889, 11893

Beon 10037, 10418

Berthen 10556, 10668

Bestar 10037

Bestwell 11326

Bexa 12493

BGH 10876, 10898

Black Diamond 11037, 10587, 11163

Blaupunkt 10195

Blue Media 11606

Blue Sky 10556, 10037, 10625, 10714, 10668, 11037, 10715, 11771, 11739, 11709, 11652, 11372, 11363, 11324, 11314, 11149, 10624, 10499

BlueH 11745

Boca 11652

bogo 12561

Boigle 11696
Boman 11324
Boots 10009
Bork 11363
BPL 10037, 10208, 11046
Bradford 10180
Brandt 10625, 10714, 10560, 10109, 10335
Brandt Plus 11851
Brillian 11007
Brimax 11709
Brinkmann 10037, 10668, 10418
Brionvega 10037
Bristol 12090
Broksonic 10463, 11935
Bush 10556, 10037, 10714, 10668, 11037, 10587, 11682, 11687, 11865, 11983, 12007, 12032, 12053, 12060, 12104, 12125, 12212, 12214, 12241, 11667, 11652, 11645, 11634, 11585, 11556, 11259, 11149, 10661, 10443, 10284, 10208, 10009
Byd:sign 11309, 12140, 12209
Caihong 10009
Cailing 10748
Cameron 11523
Camper 10037
Candle 10030, 10186
Canon 12743
Capetronic 10030
Carad 10668, 11037
Carena 10037
Carnivale 10030
Carrefour 10037
Carver 10054
Cascade 10037, 10009
Casio 10037, 11205
Cat 11682
Cathay 10037, 11727
CCE 10037, 10623
CE 11046
Celera 10765
Celestial 10767, 13052
cello 11770, 11820, 11846, 12246
Centrex 11203, 11536, 11702
Centrum 11037
Centurion 10037
CGE 10418
Changcheng 10051, 10009, 10661
Changfei 10009
Changhai 10009
Changhong 10156, 10765, 10508, 10009, 10767, 11498
Chengdu 10009
Chimei 11520, 11666, 11852, 13215
Ching Tai 10009, 10092, 10179

Chun Yun 10180, 10009, 10092, 10179, 10843, 11687, 11756, 11834, 12230
Chunfeng 10009
Chung Hsin 10180, 10053
Chunsun 10009
Cimline 10009
Cineral 10451, 10092
Cinetec 12060
Cinex 11556
Citizen 10451, 10180, 10060, 10030, 10039, 10092, 10186, 11671, 11672, 11935
City 10009
Clarion 10180
Clarity 11720
Clarivox 10037, 10418
Classic 10499
Clatronic 10037, 10714, 10009, 11324
Clayton 11037
Coby 11538, 11634, 12306, 12314, 12315, 12326, 12338, 12340, 12344, 12345, 12347, 12351, 12560, 13202
Commercial Solutions 10047, 11447
Concorde 10009
Condor 10037, 10009, 10418
Conia 11211, 11498, 11523, 11687, 11702, 12032, 12410
Conrac 10808
Conrowa 10156, 10145, 10009
Contec 10180, 10037, 10009
Continental 12357
Continental Edison 10109
Coradir 12844
Cosmel 10037, 10009
CPTEC 10625, 11363
Craig 10180
Croma 11843, 12583
Crosley 10054, 10624
Crown 10180, 10053, 10037, 10714, 10668, 11037, 10715, 10009, 10039, 10208, 10418, 11652, 12200
CTX 11756
Curtis 11326, 12352, 12397, 13228
Curtis Mathes 10047, 10054, 10154, 10051, 10451, 10093, 10060, 10702, 10030, 10145, 10166, 11661, 10039, 10466, 11347
CXC 10180
CyberHome 10794
Cyberpix 11667
Cytron 11326
Cytronix 11298
D-Vision 10556, 10037
Daenyx 10180, 10179

Daewoo 10154, 10451, 10180, 10178, 10030, 11661, 10556, 10037, 10634, 10880, 11203, 11376, 11606, 11612, 11849, 12098, 12333, 10876, 10865, 10661, 10624, 10623, 10499, 10092, 10039, 10009
Dansai 10037, 10009, 10208
Dantax 10714, 11037, 10715, 11163, 11652, 12060
Datsura 10208
Dawa 10037, 10009
Daytek 11207, 11376
Dayton 10009, 11207
Daytron 10180, 10037, 10009
Dayu 10661
De Graaf 10208
DEC 11326, 11709
Decca 10037
Dell 11264, 11403
Denon 10145
Denver 10037, 10587, 11372, 11634, 11709, 11770, 11820, 12139, 12172, 12197
Desmet 10037, 10009
Dew 11770
DGM 11435, 12020, 12022, 12059, 12239
Diamant 10037
Diamond 10009
Dick Smith Electronics 11326, 11556, 11660, 12241, 12457, 12912, 13235
Digatron 10037, 12890
Digihome 11149, 11667
Digiline 10037, 10668
Digimate 10890, 12020, 12022
Digisonic 11826
Digital Device 11606
Digital Life 10872
Digital Lifestyles 11765
Digital Projection Inc. 11750
Digitel 11709, 11771
Digitor 10037, 10703
Digix Media 10880
Dikom 11696, 11703
Disney 11665, 11892, 12152
diVision 12197, 12239
Dixi 10037, 10009
DL 10587, 10872, 11203, 11326, 11363
DMTech 11338, 11937, 11964, 11994, 12001, 12251
Domeos 10668
Dongda 10009
Donghai 10009
Drean 10037
DSE 10767, 11326, 11556, 11660, 11703, 12241, 12457, 12475, 12480, 12912, 13235

DTS 10009
Dual 10037, 11037, 11149, 11163, 11372, 11585, 11667, 12032, 12241, 12676
Dumont 10017
Durabrand 10463, 10180, 10178, 10171, 10714, 11037, 11437, 11463, 11652, 11665
Dux 10037
DX Antenna 11817
Dynaconnective 12811
Dynatron 10037
Dynex 11463, 11785, 12049
Dyon 12457
e-motion 11709
E:max 11324, 11531
Easy Living 10877, 11217, 11259, 11613, 11666, 11709, 11783, 12005, 12023, 12104, 12157, 12253, 12255
Ecco 10773
ECE 10037, 11046
Elbe 10556, 10037, 10284, 10292
Electra 10876
Electrograph 11623, 11755
Electrohome 10463, 11670, 11672
Elekta 10009
Elektra 10017, 11661
Element 11687, 11886, 12183
Elfunk 11037
ELG 10037
Elin 10037, 10009
Elite 10037
Elonex 11776
Elta 10009
Emerson 10154, 10451, 10463, 10180, 10178, 10171, 11661, 10037, 10714, 10668, 11963, 11886, 11864, 11665, 11394, 10624, 10623, 10179, 10039
Emprex 11422, 11546, 11765
Encross 10876
Enmar 12023
Envision 10030, 10813, 11365, 11589, 12014, 12087
Epson 11122, 11290, 11379
Erisson 11682
Erres 10037
ESA 10171, 11963
ESC 10037
Esonic 12221, 12229
Essentials 12486
Ether 10030, 10009
Etron 10009
Euroman 10037
Europa 10037
Europhon 10037
Evesham 11248, 11536, 11606, 11667, 11719
Evolution 11756

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Excello 11037, 11326
Excors 12031
Exquisit 10037
F&U 12676
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Feilu 10009
Feiyue 10009
Fenner 10009
Ferguson 10053, 10037, 10625, 10560, 10195, 11037, 10109, 10335, 10443, 11585, 11865, 11935, 12053, 12090
Fidelity 10171, 10037, 10512
Finlandia 10208
Finlux 10556, 10037, 10714, 10715, 10179, 10480, 10808, 11248, 11556, 11667, 12676
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Fisher 10047, 10154, 10208
Flint 10037
Fluid 12964
Foehn & Hirsch 12391
Fonda 11239
Force 11149
Formenti 10037
Fortress 10093
Fraba 10037
Freesat 11636
Friac 10037, 10009, 10499
Frigidaire 11597, 11826, 12231
Frontech 10009
Fujicom 11626, 11709, 11820
Fujimaro 10865, 11498, 11687
Fujimaru 11687
Fujitsu 10009, 10179, 10186, 10683, 10809, 10853
Fujitsu General 10009, 10186, 10683
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Furi 10145
Futronic 11531
Futuretech 10180
G-Hanz 11363, 11695, 12449
G-Hanz Sampo 11695
Gaba 11037
Galaxi 10037
Galaxis 10037
Gateway 11755, 11756
GBC 10009

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GEC 10037
Geloso 10009
General 10109, 10186
General Electric 10047
General Technic 10009
Genesis 10037, 10009
Genexxa 10037, 10009
Gericom 10808, 10865, 10880, 11206, 11217, 11298, 11606
GFM 10171, 11665, 11864, 11886, 11963
Giant 10009
Gibraltar 10017, 10030
Gibson 11597, 11826, 11834, 12305
Gilma 12449
Global Home 10767
Go Video 10060, 10886, 11823
Godrej 11585
Gold 11770, 11833, 12023, 12039, 12157
Gold Vision 10661
Goldfunk 10668
GoldStar 10154, 10178, 10030, 10037, 10714, 10715, 10039, 10109
Goodmans 10556, 10037, 10625, 10714, 10560, 10668, 10634, 11037, 11585, 11645, 11667, 11682, 11687, 11719, 11720, 11727, 11795, 11983, 12053, 12223, 12393, 12676, 11523, 11376, 11259, 11163, 11149, 10880, 10808, 10661, 10624, 10499, 10480, 10360, 10335, 10179, 10009
Gorenje 11585, 12676
GPX 10179
Gradiente 10053, 10037
Graetz 10714, 11163
Gran Prix 12333
Granada 10037, 10560, 10208
Grandin 10556, 10037, 10714, 10668, 11037, 10715, 10009, 10624, 10865, 10880, 11206, 11298, 11652
Grundig 10556, 10037, 10195, 10587, 12890, 12561, 12239, 12200, 12195, 12125, 12060, 12059, 12053, 12007, 11935, 11843, 11820, 11667, 11645, 11376, 11372, 11259, 11223, 10683, 10443, 10009
Grunkel 11163
Grunpy 10180, 10179
GVA 11326, 11363, 12098

H & B 10808, 11366, 12001
Haier 10037, 10587, 10508, 11017, 11203, 11753, 11983, 12204, 12212, 12449, 12494, 12709, 13204, 13280
Haihong 10009
Hallmark 10178
Hankook 10180, 10178, 10030
Hanns.G 11783
Hannspree 11348, 11613, 11745, 11776, 11783, 11826, 12027
Hanseatic 10556, 10037, 10625, 10714, 10634, 10009, 10292, 10499, 10661, 10808, 11964, 12001
Hantarex 10037, 10009, 10865, 11338, 12197, 12384
Hantor 10037
Harley Davidson 10179
Harman/Kardon 10054
Harsper 10865, 11206
Harvard 10180
Harwa 10773, 11196
Harwood 10037, 10009
Hauppauge 10037
Havermy 10093
HB 11324
HCM 10037, 10009, 10418, 11196
Helios 10865
Hello Kitty 10451
Hema 10009
Heran 11826, 11852, 12305, 12356
Herosonic 11826
Hewlett Packard 11089, 11494
Hicon 11467, 12662
Hifivox 10109
Highlander 11531
Highline 10037
Hikona 11983
Himitsu 10180
Hinari 10037, 10009, 10179, 10208, 10443
HiPlus 11420, 11435, 11826, 12113, 12224, 12225, 12226, 12230, 12235, 12253
Hisawa 10714
Hisense 10156, 10748, 10145, 10556, 10508, 12583, 12401, 12355, 12341, 12183, 12098, 12037, 11739, 11660, 11363, 11314, 10208, 10009
Hitachi 10156, 10150, 10178, 10030, 11145, 10145, 10037, 10634, 11037, 10508, 11163, 11345, 11484, 11576, 11585, 11643, 11667, 12005, 12214, 12215, 12279, 12676, 11149, 10877, 10724, 10679, 10499, 10480, 10186, 10179, 10109, 10092, 10039, 10009

Hitachi Fujian 10150
Hitsu 10009
Hoeher 10714, 10865, 11163, 11556
Hongmei 10093, 10009
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