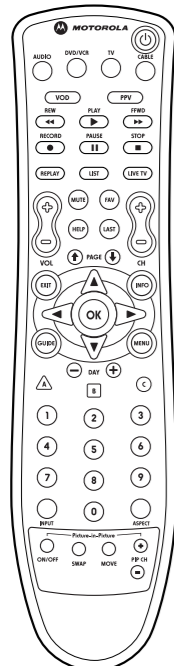




Motorola DRC800 4-in-1 Universal Remote Control



User Guide

OVERVIEW

Your new Motorola DRC800 universal 4-in-1 remote operates your Motorola or other manufacturer's cable set-top box and up to three other devices.

In addition, the DRC800 provides advanced features such as Digital Video Recording (DVR) control and Picture-in-Picture (PIP) support.

You can lock volume control to any of these devices, to make adjusting your home entertainment volume easier. See "Changing Volume Lock". The DRC800 comes from the factory without the volume locked to any specific device.

You can also change what type of device each mode key controls. See "Reassigning Device Keys".

Operating Range

Your remote controls devices from up to 50 ft (15 m) away if you are directly in front of the device, or from up to 20 ft (6 m) away if you are off to either side.

INSTALLING BATTERIES

Your remote requires 2 AAA batteries. The first set of batteries is included, and should last up to 6 months under normal usage.

- Remove the battery case cover and the old batteries (if necessary).

- Follow the diagram inside the battery case to insert the new batteries.

Note: Always use new, high quality replacement batteries. Ensure that the batteries are not damaged before inserting them into the remote.

You have ten minutes to replace the batteries before your remote loses memory.

USING YOUR REMOTE

To select a device to control, simply press one of the device mode keys (**TV**, **AUDIO**, **DVD/VCR**, **CABLE**) at the top of your remote. After you set up the remote to control that device, you may begin using the device.

See "Programming Device Control" for more information on identifying a specific device to a device key.

Press this Key	To...
	Turn the selected device ON or OFF
Audio, DVD/VCR, TV, Cable	Select a device
VOD	Direct access to Video On Demand (VOD), where available
PPV	Direct access to Pay Per View (PPV) programming (where available)
REW	Rewind VCR, DVD, VOD, DVR, or HTIB
PLAY	Play VCR, DVD, VOD, DVR, or HTIB
FFWD	Fast Forward VCR, DVD, VOD, DVR, or HTIB
RECORD	Record to VCR or DVR
PAUSE	Pause VCR, DVD, VOD or DVR
STOP	Stop VCR, DVD, VOD or DVR
REPLAY	Replay the previous few seconds of a program (only available with DVR models)
LIST	Display a list of programs that you recorded. This will allow you to select one for viewing (only available with DVR models)

Press this Key	To...
LIVE TV	Displays live television programming (only available with DVR models)
MUTE	Mute current audio feed
FAV	Jump among pre-selected favorite channels (only available in CABLE mode)
HELP	Display the help screen (only available in CABLE mode)
LAST	Return to last selected channel
VOL +/-	Increase or decrease volume
CH +/-	Select the next or previous channel
PAGE	Move up or down through menu screens or the Electronic Program Guide
EXIT	Exit any On-Screen Display (OSD) and return to regular viewing
INFO	Display channel and program information
GUIDE	Access the cable guide
MENU	Access any OSD for the currently selected device
▲	Move up through any OSD or cable guide menu
▼	Move down through any OSD or cable guide menu
◀	Move left through any OSD or cable guide menu
▶	Move right through any OSD or cable guide menu
OK	Select the currently highlighted OSD menu or cable guide choice
DAY	View the previous or next day's cable guide

Press this Key	To...
A	These functions are set by your cable provider
B	These functions are set by your cable provider
C	These functions are set by your cable provider
1-9, 0	Enter a channel or device code number. To access channels lower than 100, you may need to enter 3 digits. For example, to access channel 2, press 0-0-2. For channel 22, press 0-2-2.
Input	Select the video source
Aspect	Change the viewing aspect (if available)
PIP ON/OFF	Turn Picture-in-Picture (PIP) on or off (if available)
PIP SWAP	Swap the PIP signal to the main display (if available)
PIP Move	Move the position of the PIP display
PIP CH +/-	Select the next or previous channel in the PIP display (the main display does not change)

PROGRAMMING DEVICE CONTROL

Each of the additional device keys controls a particular type of device. For example, the **DVD/VCR** key controls your VCR, DVR, or DVD player, but not your TV, unless you specify otherwise. See "Reassigning Device Keys".

This device key...	Controls this type of device...
TV	TV
DVD/VCR	DVD, VCR, DVR, HTIB, TV/VCR, TV/VCR/DVD, and TV/DVD
Cable	Cable box <i>only</i>
Audio	Amplifier, Tuner

To specify a device

- Look up the device you want to control in the device code list on the back of this guide.
- Press and hold a device key (**AUDIO**, **DVD/VCR**, or **TV**) for at least six seconds. The LEDs for

- each device key light up, then the LED for the device you selected remains on.
- Enter the four-digit code. The device key LED turns off briefly after each key press.

Note: You have 10 seconds to press each digit. If it takes longer than that, the remote "times out" and you must begin again.

- If the remote recognizes the code, the device key's LED blinks three times. You can now test the remote by pressing **POWER**. If your device responds (turns off), you have found the right code. If your device does not respond, repeat steps 2 - 3 with the next code in the list..

If the remote does not recognize the code, the LED will turn off. Retry the code (by repeating steps 2-3 using the next code listed for your brand), or search for a device code. See "Searching for Codes".

SEARCHING FOR CODES

If none of the codes listed under "Device Codes" on the back of this guide match your device, you can search for a set of commands that will work. Your remote will sample all the codes in its system for that device mode to find one that will allow you to control your device.

- Press and hold a device mode key (**AUDIO**, **DVD/VCR**, or **TV**) for at least six seconds. The LED for each device key lights up, then the key for the device you selected remains on.
- Press a function key (such as **Power** or **Mute**). The following function keys are valid for Searching (**Power** is recommended):

- Power**
- Mute**
- Play**
- CH +**
- Stop**

- The device key's LED blinks three times, then turns off.
- Press **▲**. The remote will send the IR command for the function you pressed in Step 2.
- If the device performed the function you pressed, press **OK**. The remote will now control the device you selected in Step 1. If the device did not perform the function you pressed, repeat step 3. Press **▼** to retry the previous code.

Tip: Note the code set that worked, in case you must re-code your remote:

DVD/VCR:
TV:
AUDIO:
See "Checking Codes" for more information on noting code sets.

CHECKING CODES

- Press and hold a device mode key (**AUDIO**, **DVD/VCR**, or **TV**) for at least six seconds. The LEDs for each device key light up, then the key for the device you selected remains on.
- Enter **9 9 0** to tell the remote you are verifying the device code. The LED blinks twice.
- Press **1**, then count the LED blinks and write down the number. If the LED does not blink, the number is **0**. This is the first digit of the device code. Press **2**, **3**, and **4** to obtain all four-code digits.

CHANGING VOLUME LOCK

Locking the volume controls to a single device makes it easier to control volume, without having to guess whether the volume will change. If you lock the remote's volume controls to the TV (for example), you will always be able to change the volume to the level you want, without having to adjust it on multiple devices.

- Press and hold the device mode key (**TV**, **AUDIO**, **DVD/VCR**, or **Cable**) corresponding to the device you want to control volume for at least six seconds. The LED for each device key lights up, then the key for the device you selected remains on.
- Press **Volume +**.

The device key's LED blinks three times, indicating it has locked the volume control to the device you selected. The **AUDIO** device key always controls its own volume, regardless of the device is locked to volume control.

Note: If you reassign **AUDIO** to another device, such as a second TV, the second TV will always control its own volume.

Unlocking Volume Control:

- Press and hold a device mode key (**TV**, **AUDIO**, **DVD/VCR**, or **Cable**) corresponding to the device currently locked to the volume controls for at least six seconds. The LED for each device key lights up, then the key for the device you selected remains on.
- Press **Volume -**.

The device key's LED blinks three times, indicating it has unlocked the volume control for all devices.

REASSIGNING DEVICE KEYS

Each device key accesses a specific type of device (for example, the **DVD/VCR** key can only be programmed to control a DVD player, VCR, DVR, or HTIB system). This makes it easier to search for a code if your device's code does not appear on the list provided.

Your new remote allows you to change the type of device that may be assigned to a device key. That way, if you have two TVs, for example, you can control them both by changing the type of device the **DVD/VCR** or **AUDIO** key controls.

- Press and hold the device mode key (**TV**, **AUDIO**, **DVD/VCR**, or **Cable**) corresponding to the type of device you want the reassigned key to control (for example, **TV**) for at least six seconds. The LED for each device key lights up, then the key for the device you selected remains on.
- Enter **9 9 2**.
- Press the device mode key you want to reassign (for example, **AUDIO**). That mode key's LED blinks three times and turns off, indicating that it has been reassigned.

The reassigned key automatically uses the same device code as the key you selected in Step 1. If your second device uses a different code, you may program it for the new code. See "Programming Device Control".

Note: You may not reassign the **Cable** device key to another type of device.

Assigning a Key back to Its Original Device Type:

- Press and hold the device mode key (**TV**, **AUDIO**, **DVD/VCR**, or **Cable**) you want to reset to its original type (for example, **AUDIO**) for at least six seconds. The LED for each device key lights up, then the key for the device you selected remains on.
- Enter **9 9 2**. The mode key's LED blinks three times and turns off.
- Press the device mode key you selected in Step 1 again. The mode key's LED blinks three times and turns off.
- Program the restored mode key to control a device. See "Programming Device Control".

TROUBLESHOOTING

If you have trouble with your remote, try the following steps in order.

My remote is not responding

- Review the information in "Using Your Remote" to make sure that the key you pressed is active for the device you are controlling.
- Make sure you are controlling the device you think you are. See "Using Your Remote" for more information on choosing a device to control.
- Make sure your batteries are good. If battery power is low, your remote enters a "Low Battery Condition" to conserve battery power for retaining your settings. See "Installing Batteries" for more information on changing the batteries.
- Reset all settings:
 - Press and hold a device mode key (**TV**, **AUDIO**, **DVD/VCR**, or **Cable**) or at least six seconds. The LED for each device key lights up, then the key for the device you selected remains on.
 - Enter **9 8 1**.

The LED blinks twice to indicate that your remote is returned to its factory settings. You will need to reset all device code settings. See "Programming Device Control".

ADDITIONAL INFORMATION

The Motorola DRC800 does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your Motorola remote control.

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This product uses technologies licensed under one or more of the following U.S. patents:
6,587,067
6,195,033
6,496,135

DEVICE CODES

Audio Amplifiers

GE	0078
JVC	0331
Modulaire	0395
Optimus	0395
Radio Shack	0395
Realistic	0395
Sony	0689
Soundesign	0078
Victor	0331
Wards	0078
Yamaha	0354

Cable Converters (Set Top Boxes)

Cisco	1877
Comcast	1982
Director	0476
General Instrument	0476
Insight	0476
Jerrold	0476
Motorola	1376, 0476
Pace	1877
Pioneer	1877
Scientific Atlanta	1877

Audio Amp/Tuners

ADC	0531
Anam	1609
Arcam	1189
Audiotronic	1189
Bose	1229
Capetronic	0531
Carver	1189
Curtis Mathes	0014
Denon	1360
Emerson	0531
Harman/Kardon	1304
Integra	0135, 0842
JVC	1058, 0074
Magnavox	1189, 1269, 0531
Marantz	1189, 1269, 0039
MCS	0039
Micromega	1189
Myryad	1189
Nakamichi	1313
Onkyo	0135, 0842
Optimus	1023, 0074, 0014, 0531
Panasonic	1308, 1518, 0039
Penney	0039
Philips	1189, 1269, 0531
Pioneer	1023, 0014, 0531
Proscan	1254
Quasar	0039
RadioShack	1609
RCA	1023, 1609, 1254, 0531
Realistic	1609
Samsung	1304
Sansui	1189
Sony	1759, 1058, 1441, 1258
Stereophonics	1023
Sunfire	1313
Technics	1308, 1518, 0039
Thorens	1189
Toshiba	0135, 0842
Victor	0074
Wards	0014
Yamaha	1023, 0176, 1276, 1375

Home Theater in a Box (HTIB) Systems

Controlled by the Audio/Tuner key

Anam	1609
Bose	1229
RCA	1609
Yamaha	1375
GE	0000, 1447, 0047, 0051, 0451, 0178, 0030, 1347
Gemini	0047
Gibralter	0000, 0017, 0030
GoldStar	0047, 0054, 0178, 0030
Grundig	0672, 0683
Grundy	0180
Grupy	0180
Hallmark	0236, 0180, 0178
Harley Davidson	0000, 0180, 0178, 0030
Harman/Kardon	0054
Harvard	0180
Haveray	0093

Polk Audio	0539
RCA	0790
Rio	0869
Samsung	1932
Sonic Blue	0869
Sony	1903, 1934
Teac	0790
Venturer	0790

TVs

A-Mark	0047, 0054
Accscan	0047
Action	0030
Admiral	0047, 0054, 0017, 0051, 0093, 0463, 0180
Advent	0783
Adventuri	0000
Agna	0150
Aiko	0092
Akai	0812, 1675, 0030, 0672
Alfade	0672
Alleron	0030
Ambassador	0150
America Action	0180
American High	0000
Amtron	0000, 0180
Anam	0180
AOC	0180, 0030
Apex Digital	0156, 0748, 0679, 0765
Audmae	0180
Audivox	0451, 0180, 0092, 0802, 0875
Baysonic	0180
Beaumarck	0017, 0178, 0030
Belcor	0030
Bell & Howell	0054, 0154, 0093
Bestq	1032
Bradford	0180
Brockwood	0178, 0030
Brokonic	0236, 0463, 0180
Candle	0030
Capchart	0017, 0178, 0030, 0092
Carinaile	0030
Carver	0054
Celebrity	0000
Celera	0765
Changhong	0156, 0765, 0783
Cineral	0451, 0092
Citek	0047
Citizen	0000, 0054, 0451, 0463, 0180, 0030, 0092
Clarion	0180
Classic	0030, 0092
Colortyne	0047, 0054, 0017, 0178, 0030
Commercial Solutions	1447, 0047
Conic	0178
Contec	0180
Craig	0180
Crosley	0000, 0054, 0180, 0030
Crown	0093, 0180, 0672
Crown Mustang	0672
Curtis Mathes	0000, 0047, 0054, 0154, 0051, 0451, 0093, 0180, 0178, 0030, 0166, 1347
CXC	0180
Daewoo	1755, 0451, 0178, 0092, 1661, 0661, 0672, 1756
Dayton	0092
Dayton	0178, 0030, 0092
De'll	1264, 1080
Damasat	0017, 0180, 0178
Durabrand	0463, 0180, 0178, 1034
Dwin	0093
Electroband	0000
Electrograph	1755
Electrohome	0000, 0154, 0463, 0150, 0178, 0030
Emerald	0178
Emerson	0047, 0017, 0154, 0451, 0236, 0463, 0180, 0150, 0178, 1394
Envision	0030, 0813
ESA	0812
Fisher	0000, 0054, 0154
Fortress	0093
Fujitsu	0809, 0683, 0853
Funai	0000, 0180
Funatech	0180
Gateway	1755, 1756
GE	0000, 1447, 0047, 0051, 0451, 0178, 0030, 1347
Gemini	0047
Gibralter	0000, 0017, 0030
GoldStar	0047, 0054, 0178, 0030
Grundig	0672, 0683
Grundy	0180
Grupy	0180
Hallmark	0236, 0180, 0178
Harley Davidson	0000, 0180, 0178, 0030
Harman/Kardon	0054
Harvard	0180
Haveray	0093

Healthkit	0017
Helius	0865
Hello Kitty	0451
Hewlett Packard	1494
Hiense	0748
Hitachi	0000, 0047, 0054, 0017, 0051, 1145
HP	1494
Hyundai	0865
Ilo	1990
Ilo	0236, 0180, 0178
Infinity	0054
Initial	1990
Insigna	1364, 1641, 1710
Inteq	0017
JBL	0054
JCB	0000
Jensen	0761
JIL	0030
Jutan	0030
JVC	0054, 0030, 0630, 1253
Kamp	0017, 0180
Karawao	0030
KEC	0180
Ketwood	0180, 0030
KLH	0156, 0180, 0765
Kloss	0030
Konka	0180
KTV	0463, 0180, 0030
Lark	0154
LG	0054, 0017, 0178, 0030, 0056
Lloyd's	0236, 0180, 0030
Logik	0236, 0180
LXI	0000, 0047, 0054, 0017, 0154, 0156, 0051, 0093, 0178, 0030, 0166
Magnasonic	0000, 0054, 0156, 0093, 0030, 0092
Magnavox	0000, 0250, 1454, 1755, 0047, 0054, 0154, 0051, 0180, 0030, 0092, 0802, 1254, 1990
Majestic	0017
Marantz	1454, 0054, 0030, 0704, 0855
Matsushita	0250, 0051, 0630
Maxent	1755, 1756
Megatron	0047, 0178
Memorex	0154, 0463, 0180, 0150, 0178, 0030
MGA	0150, 0178, 0030
MGN Technology	0178
Micro Genius	0130
Midland	0047, 0017, 0051
Mintek	1990
Mitsubishi	0154, 1250, 0093, 0150, 0178, 0030, 0836
Motorola	0054, 0051, 0093, 0150
MTC	0180, 0030, 0092
Multitech	0180
NAD	0156, 0178, 0166, 0866
NEC	0047, 0178, 0030, 0704, 1704
NetTV	1755
Nikko	0178, 0030, 0092
Nikkodo	0178, 0030, 0092
Nishi	0630
Norcent	0748, 0824
NTC	0092
Nyon	0000
Olevia	1610, 1240
Oma	0180
Optimus	0250, 0154, 0093, 0180, 0150, 0178, 0030, 0166, 0630
Optonica	0093
Orion	0017, 0236, 0463, 0180, 0178
Pace	0092
Panasonic	0000, 0250, 1480, 1457, 0054, 0156, 0051, 0236, 0030, 0650
Panonic	0030
PCE	0156
Penney	0000, 0250, 0047, 0156, 0051, 0178, 0030, 1347
Petters	1323
Phico	0054, 0463, 0030, 1394
Philips	1454, 0054, 0030, 0690, 1254, 1744, 1867
Pilot	0051, 0178, 0030
Pioneer	1457, 0166, 0679, 0866, 1260
Polaraid	1523, 0765, 0865
Porfland	0451, 0092
Precision	0236, 0180
Prima	0761, 0783
Prism	0250, 0051
Proscan	1447, 0047, 1347
Proton	0178
Pulsar	0017, 0092
Pulser	0178, 0092
Quartz	0150, 0178
Quasar	0250, 0051, 0630
Rabbit	0047
RadioShack	0047, 0154, 0180, 0150, 0178, 0030
RCA	0000, 1547, 1447, 0047, 0054, 0051, 0093, 0178, 0679, 1347
Realistic	0047, 0154, 0180, 0150, 0178, 0030
Ranco	0017, 0030
Sampo	1755, 0047, 0030, 1756

Samsung	0812, 0047, 0054, 0017, 0154, 0178, 0030, 0650, 0766, 0814, 1060
Sanky	0030
Sansui	0463, 0030
Sanyo	0000, 1755, 0047, 0054, 0154, 0463, 1142
Scotch	0178
Scott	0236, 0180, 0178, 0030
Sears	0000, 0047, 0054, 0017, 0154, 0156, 0051, 0093, 0178, 0030, 0166
Sharp	0818, 0054, 0093, 0180
Sheng Chia	0093
Shivaki	0178
Signature	0047, 0093, 0030
Simpson	0178, 0030
Singer	0092
Solar Drape	0000
Sony	1100, 0000, 0017, 0154, 0150, 1685
Soundesign	0180, 0178
Spectravision	0156, 0178
SR2000	0154
SSS	0180
Starline	0236, 0180
Superscan	0093, 0864
Supreme	0000
SV2000	0054
SVA	0748, 0865
Sylvania	0000, 1464, 0047, 0054, 0154, 0051, 0178, 0030, 0092, 1394
Symphonic	0000, 0180, 0178
Syntax	1610, 1340
Tandy	0093
Tatung	0000, 0051, 1756
Teac	0154
Technics	0250, 0054, 0051
Technovox	0030
Techwood	0250, 0051
Teknika	0054, 0463, 0180, 0150, 0178, 0092
Telecolor	0017
Thomas	0047, 0178
Thomson	1447, 0047
TMK	0236, 0180, 0178
TNG	0017
Tocom	0156
Toshiba	0154, 0156, 0150, 1145, 0166, 0650, 0845, 1704
Television	0051
Toyomenka	0178
Truetone	0250, 0051
TVS	0463
Ultra	0092
Universal	0047
V	1755, 0864, 0885, 1756
Vector Research	0030
NAD	0054
Vidtech	0178
Viewsonic	1755, 0857, 0864, 0885
Viore	0054
Vizio	1758, 1755, 0864, 0885, 1756
Wards	0000, 0047, 0054, 0017, 0154, 0051, 0093, 0236, 0178, 0030, 0166, 0866
Waycom	0092
Wehco	0178
Westinghouse	0000, 0451, 0885, 0889
White Westinghouse	0451, 0236, 0463, 0889
World	0451, 0236, 0463, 0180
XR-1000	0154, 0180
Yamaha	0030, 0650
Yorc	0030
Zenith	0000, 0012, 0047, 0017, 0093, 0463, 0178, 0030, 1145, 0092

Akai	0695
Apex Digital	0830
Boikonic	0695
Citizen	0695
Emerson	0675, 1268
ESA	1268
Funai	1268
GFM	1268
Insignia	1268
Magnavox	1268
Philips	0854
RCA	1022
Samsung	0899
Sansui	0695
Sanyo	1268
Sony	0695
Sylvania	0675, 1268
Toshiba	1268
Zenith	0695

Sharp	0807
Akai	0899
Boikonic	0868
Emrcson	0821
ESA	0821
Magnavox	0821
Panasonic	1362
Sharp	0630
Superscan	0821
Sylvania	0821
Symphonic	0821
Toshiba	1045
Webco	0178
Westinghouse	0000, 0451, 0885, 0889
White Westinghouse	0451, 0236, 0463, 0889
World	0451, 0236, 0463, 0180
XR-1000	0154, 0180
Yamaha	0030, 0650
Yorc	0030
Zenith	0000, 0012, 0047, 0017, 0093, 0463, 0178, 0030, 1145, 0092

TV/DVD Combination Devices

Controlled by the TV key

Akai	1675
Emerson	1394
I.o	1990
Initial	1990
Magnavox	1990
Mintek	1990
Polaraid	1523
Sylvania	1864, 1394
Akai	0695
Apex Digital	0830
Boikonic	0695
Citizen	0695
Emerson	0675, 1268
ESA	1268
Funai	1268
GFM	1268
Insignia	1268
Magnavox	1268
Philips	0854
RCA	1022
Samsung	0899
Sansui	0695

Controlled by the DVD key

Sylvania	0675, 1268
Tosiba	0695

TV/VCR Combination Devices

Controlled by the TV key

America Action	0180
Audivox	0180
Emerson	0236
Sharp	0818, 0054, 0093, 0180
Sheng Chia	0093
Shivaki	0178
Signature	0047, 0093, 0030
Simpson	0178, 0030
Singer	0092
Solar Drape	0000
Sony	1100, 0000, 0017, 0154, 0150, 1685
Soundesign	0180, 0178
Spectravision	0156, 0178
SR2000	