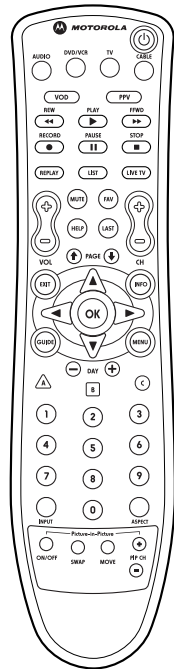




Motorola DRC800 4-in-1 Universal Remote Control



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.

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

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

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)
LIVE TV	Displays live television programming (only available with DVR models)

Press this Key	To...
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
A	These functions are set by your cable provider

Press this Key	To...
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

1. Look up the device you want to control in the device code list on the back of this guide.
2. 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.

3. Enter the four-digit code. The device key LED turns off briefly after each key press.
4. 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".

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.

1. 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.
2. 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**

3. Press **▲**. The remote will send the IR command for the function you pressed in Step 2.
4. 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

1. 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.
2. Enter **9 9 0** to tell the remote you are verifying the device code. The LED blinks twice.
3. 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.

1. 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.
2. 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:

1. 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.
2. 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.

1. 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.
2. Enter **9 9 2**.
3. 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:

1. 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.
2. Enter **9 9 2**. The mode key's LED blinks three times and turns off.
3. Press the device mode key you selected in Step 1 again. The mode key's LED blinks three times and turns off.
4. 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.

No part of this publication may be reproduced, transmitted, transcribed, stored in any retrieval system, or translated to any language, in any form, or by any means, electronic, mechanical, optical, manual, or otherwise, without the prior written permission of Motorola.

MOTOROLA and the stylized M logo are registered trademarks in the US Patent and Trademark Office. All other product and service names are the property of their respective owners. Copyright Motorola, Inc. 2003.

M1072

11/03



MOTOROLA
intelligence everywhere™

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

Aiwa	0406
Carver	0269
Curtis Mathes	0300
Denon	0160
GE	0078
Harman/Kardon	0892
JVC	0331
Left Coast	0892
Linn	0269
Luxman	0165
Magnavox	0269
Marantz	0892, 0321, 0269
Nakamichi	0321
Optimus	0395, 0300
Panasonic	0308
Philips	0892, 0269
Pioneer	0300, 0013
Polk Audio	0892, 0269
RCA	0300
Realistic	0395
Sansui	0321
Sony	0689, 0220
Soundesign	0078, 0211
Technics	0308
Victor	0331
Wards	0078, 0211, 0013
Yamaha	0354

Cable Converters (Set Top Boxes)

Director	0476
General Instrument	0476
Jerrold	0476
Motorola	0476, 1376
Pioneer	1877
Scientific Atlanta	1877

Audio Amp/Tuners

ADC	0531
Aiwa	1405, 0158
Anam	1609
Audiotronic	1189
Bose	1229, 0639
Capetronic	0531
Carver	1189
Dell	1383
Denon	1360, 0004
Harman/Kardon	0110
Integra	0135
JBL	0110
JVC	0074
Kenwood	1313, 1570, 1569, 0027, 0239
Magnavox	1189, 1269, 0531
Marantz	1189, 1269, 0039
MCS	0039
Nakamichi	0097
Onkyo	0842, 0135
Optimus	1023, 0531
Panasonic	1518, 0039
Philips	1189, 1269
Pioneer	1023, 0531, 0014
Proscan	1254
Quasar	0039
RCA	1023, 1609, 1254, 0531
Rio	1383
Sonic Blue	1383
Sony	1058, 1441, 1258, 1759, 0158, 1406
Stereophonics	1023
Sunfire	1313
Technics	1308, 1518, 0039
Thorens	1189
Victor	0074
Wards	0158, 0014

Yamaha	0176, 1176
TVs	
A-Mark	0003
Abex	0032
Admiral	0093, 0463
Advent	0761, 0783, 0842, 0817, 0815
Adventura	0046
Aiko	0092
Aiwa	0701
Akai	0702, 0030, 0672
Aleron	0179
Albatron	0843, 0700
Ambassador	0177
America Action	0180
Anam	0180
Anam National	0055
AOC	0030, 0052, 0003, 0185
Apex Digital	0748, 0765
Archer	0003
Audiovox	0451, 0180, 0092, 0623, 0003
Bell & Howell	0154, 0016
Bradford	0180
Broksonic	0236, 0463, 0003
Candle	0030, 0056, 0046
Carnivale	0030
Carver	0054
Celebrity	0000
Celera	0765
Changhong	0765
Citizen	0060, 0030, 0092, 0039, 0056, 0046
Clairtone	0185
Clarion	0180
Concerto	0056
Contec	0180, 0185, 0157
Craig	0180
Crosley	0054
Crown	0180, 0039
Curtis Mathes	0047, 0054, 0154, 0451, 0093, 0060, 0702, 0030, 0145, 0166, 0056, 0016, 0466, 0039
CXC	0180
Daewoo	0451, 1661, 0092, 0672, 0623, 0039
Denon	0145
Dumont	0017
Durabrand	0180, 0178, 0003
Electroband	0000, 0185
Emerson	0154, 0236, 0463, 0180, 0178, 0171, 0623, 0185
Envision	0030, 0813
Fisher	0154, 0159
Fujitsu	0683, 0179, 0809, 0853
Funai	0180, 0171, 0179
Futuretech	0180
Gateway	1756, 1755
GE	0047, 0051, 0451, 0178, 0055, 0135, 0027, 0282, 0021
Gibraltar	0017, 0030
GoldStar	0030, 0178, 0001, 0032
Grunpy	0180, 0179
Haier	0768
Hallmark	0178
Harley-Davidson	0179
Harman/Kardon	0054
Harvard	0180
Havermy	0093
Hello Kitty	0451
Himitsu	0180
Hisense	0748
Hitachi	0145, 0151, 0032, 0016, 0056, 0038
Hyundai	0849
Infinity	0054
Inteq	0017
Jancil	0046
JBL	0054

JCB	0000
Jensen	0761, 0817, 0815
JVC	0053
Kaypani	0052
KEC	0180
Kenwood	0030
KLH	0765
Kloss	0046, 0024
Konka	0707, 0632, 0628
KTV	0180, 0030, 0039, 0185
LG	0856
LXI	0047, 0054, 0154, 0156, 0178
Logik	0016
Luxman	0056
Magnavox	0054, 0030, 0706, 0020, 0187, 0179, 0024, 0096
Majestic	0016
Marantz	0054, 0030, 0855, 0704
Matsushita	0250, 0650
Megatron	0178, 0145, 0003
MEI	0185
Memorex	0154, 0250, 0463, 0150, 0178, 0179, 0016

Telefunken	0702, 0056
TMK	0178, 0056, 0177
TNGI	0017
Toshiba	0154, 0156, 0060, 1704, 0650
Tosonic	0185
Totevision	0039
Trical	0157
TVS	0463
Universal	0027
Vector Research	0030
Victor	0053
NEC	0030, 1704, 0056
Nikko	0030, 0178, 0092
Norcent	0748, 0824
Noshi	0018
NTC	0092
Onwa	0180
Optimus	0154, 0250, 0166, 0650
Optonica	0093, 0165
Orion	0236, 0463, 0179
Panasonic	0250, 0051, 0055, 0650
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0032, 0018, 0135, 0003, 0027, 0039, 0021

Philco	0054, 0030, 0020, 0096
Philips	0054, 0690
Pilot	0030, 0039
Pioneer	0166, 0038, 0866, 0679
Portland	0092, 0039
Prima	0761, 0817, 0815, 0783
Princeton	0700
Prism	0051
Proscan	0047
Proton	0178, 0466, 0052, 0003
Proview	0835
Pulsar	0017
Quasar	0250, 0051, 0165, 0055, 0650
RadioShack	0047, 0154, 0180, 0030, 0178, 0032, 0056, 0165
RCA	0047, 0679, 0038, 0135, 0018, 0090

Realistic	0154, 0180, 0030, 0178, 0039, 0165, 0032, 0056
Rhapsody	0185
Runco	0017, 0030
Sampo	0030, 0032, 1755, 0052, 0039
Samsung	0060, 0702, 0030, 0178, 0056, 0032, 0766

Samsux	0039
Sansui	0463
Sanyo	0154, 0146, 0159
Scotch	0178
Scott	0236, 0180, 0178, 0179
Sears	0047, 0054, 0154, 0156, 0178, 0171, 0146, 0159, 0179, 0056
Sharp	0093, 0039, 0165, 0157

Sheng Chia	0093
Signature	0016
Simpson	0187
Sony	0000, 0111, 0080
Soundesign	0180, 0178, 0179
Spectricon	0003
Squareview	0171
SSS	0180
Starlite	0180
Supre-Macy	0046
Supreme	0000
SVA	0748, 0768
Sylvania	0054, 0030, 0171, 0020, 0096
Symphonic	0180, 0171
Tandy	0093
Tatung	0055, 0003
Technics	0250, 0051
Techmol Ace	0179
Techview	0847
Techwood	0051, 0003, 0056
Teknika	0054, 0180, 0150, 0060, 0039, 0179, 0016, 0056, 0092

Telefunken	0702, 0056
TMK	0178, 0056, 0177
TNGI	0017
Toshiba	0154, 0156, 0060, 1704, 0650
Tosonic	0185
Totevision	0039
Trical	0157
TVS	0463
Universal	0027
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0178
Viewsonic	1755
Viking	0046
Wards	0054, 0030, 0178, 0111, 0179, 0021, 0096, 0020, 0080, 0165, 0866, 0016, 0027, 0056

Waycon	0156
White Westinghouse	0463, 0623
Yamaha	0030
Zenith	0017, 0463, 0178, 0016, 0092
Zonda	0003

VCRs

Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0184, 0209, 0002, 1479, 0479
Akai	0041
America Action	0278
American High	0035
Asha	0240
Audiovox	0037, 0278
Beaumark	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209, 0002, 1479, 0479
Calix	0037
Canon	0035
Carver	0081
CCE	0072, 0278
Citizen	0037, 0278, 1278
Colt	0072
Craig	0037, 0047, 0240, 0072
Curtis Mathes	0060, 0035, 0162, 0041, 1035
Cybernex	0240
Dacwoo	0045, 0278, 1278
Denon	0042
Durabrand	0039, 0038
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032

Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0479, 1479, 1278
Fisher	0047, 0104
Fuji	0035, 0033
Funai	0000
Garrard	0000
GE	0060, 0035, 0240, 1035, 0807, 1060

Go Video	0432
GoldStar	0037, 0038, 1237
Gradiente	0000
Harley Davidson	0000
Harman/Kardon	0081, 0038
Harwood	0072
HI-Q	0047
Hitachi	0000, 0042, 0041
Hughes Network Systems	0042
Jensen	0041
JVC	0067, 0041
KEC	0037, 0278
Kenwood	0067, 0041, 0038
KLH	0072
Kodak	0035, 0037
Lloyd's	0000
Logik	0072
LXI	0037
Magnasonic	1278
Magnavox	0035, 0039, 0081, 0000, 0149, 1781

Magnin	0240
Marantz	0035, 0081
Marta	0037
Matsushita	0035, 0162
MEI	0035
Memorex	0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 1237, 0479

MGA	0240, 0043
MGN Technology	0240
Minolta	0042
Mitsubishi	0067, 0043, 0807
Motorola	0035, 0048
MTC	0240, 0000
Multitech	0000, 0072
NEC	0104, 0067, 0041, 0038
Nikko	0037
Noblex	0240
Olympus	0035
Optimus	0162, 0037, 0048, 0104, 0432
Orion	0184, 0209, 0002, 1479, 0479
Panasonic	0035, 0162, 1035, 0616, 0225
Penney	0035, 0037, 0240, 0042, 0038, 1035, 1237

Pentax	0042
Philco	0035
Philips	0035, 0081, 0618
Pilot	0037
Pioneer	0067
Polk Audio	0081
Profitronic	0240
Proscan	0060, 1060
Protec	0072
Pulsar	0039
Quasar	0035, 0162, 1035
RadioShack	0000
Radix	0037
Randex	0037
RCA	0060, 0240, 0042, 0149, 0880, 0807, 1060, 1035

Realistic	0035, 0037, 0048, 0047, 0000, 0104
ReplayTV	0614, 0616
Runco	0039
Samsung	0240, 0045, 1014
Sanky	0048, 0039
Sansui	0000, 0067, 0209, 0041, 1479, 0479

Sanyo	0047, 0240, 0104
Scott	0184, 0045, 0121, 0043
Sears	0035, 0037, 0047, 0000, 0042, 0104, 1237
Sharp	0048, 0807
Shintom	0072
Shogun	0240
Singer	0072

Sonic Blue	0616, 0614
Sony	0035, 0032, 0033, 0000, 0636, 1232
STS	0042
Sylvania	0035, 0081, 0000, 0043, 1781
Symphonic	0000
Tatung	0041

Teac	0000, 0041
Technics	0035, 0162
Teknika	0035, 0037, 0000
Thomas	0000
Tivo	0636, 0618, 1503
TMK	0240
Toshiba	0045, 0043, 1503, 1145
Totevision	0037, 0240
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045
Videomagic	0037
Videosonic	0240
Villain	0000
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149

White Westinghouse	0209, 0072
XR-1000	0035, 0000, 0072
Yamaha	0038
Zenith	0039, 0033, 0000, 0209, 1479, 0479

TV/VCR Combination Devices

America Action	0278
Audiovox	0278
Broksonic	0002, 1479, 0479
Citizen	1278
Colt	0072
Curtis Mathes	1035
Daewoo	1278
Emerson	0002, 1278, 0479, 1479
Funai	0000
GE	0240, 0807, 1060, 1035
GoldStar	1237
Harley Davidson	0000
Hitachi	0000
Lloyd's	0000
Magnasonic	1278
Magnavox	