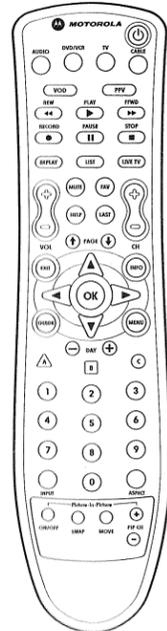




Motorola DRC800 4-in-1 Universal Remote Control



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.

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)
- LIVE TV** Displays live television programming (only available with DVR models)
- MUTE** Mute current audio feed

Press this Key To...

- FAV** Jump among pre-selected favorite channels (only available in CABLE mode)

Note: Favorite channels must be pre-selected through the Electronic Programming Guide before this key works.
- 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
- B** These functions are set by your cable provider
- C** These functions are set by your cable provider

Press this Key To...

- 1 2 3** 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.
- Note:** You have 10 seconds to press each digit. If it takes longer than that, the remote "times out" and you must begin again.
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".

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**

The device key's LED blinks three times, then turns off.

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.

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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

Bose	0674
Carver	0269
Curtis Mathes	0300
Denon	0160
GE	0078
Harman/Kardon	0892
JVC	0331
Left Coast	0892
Linn	0269
Magnavox	0269
Marantz	0269, 0321, 0892
Nakamichi	0321
NEC	0264
Optimus	0300
Panasonic	0308
Philips	0269, 0892
Pioneer	0013, 0300
Polk Audio	0269, 0892
RCA	0300
Sansui	0321
Shure	0264
Sony	0689
Soundesign	0078, 0211
Technics	0308
Victor	0331
Wards	0013, 0078, 0211
Yamaha	0133

Cable Converters (Set Top Boxes)

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

Audio Amp/Tuners

ADC	0531
Aiwa	0121, 0158, 0189
Anam	1074, 1609
Audiotronic	1189
Bose	1229
Capetronic	0531
Carver	0189, 1189
Denon	1360
Harman/Kardon	0110, 0189
Integra	0135
JBL	0110
JVC	0074
Kenwood	0027, 1570, 1313
KLH	1428
Linn	0189
Magnavox	0189, 1269, 0531, 1189
Marantz	0189, 1189, 0039, 1269
MCS	0039
Mitsubishi	1393
Onkyo	0135, 0842
Optimus	1023, 0531, 1074, 0670
Panasonic	0039, 0309, 1518
Philips	0189, 1189, 1269
Pioneer	0014, 0150, 0531, 0630, 1023
Polk Audio	0189
Proscan	1254
Quasar	0039
RCA	1254, 1609, 0531, 1074, 1023
Sansui	0189
Sherwood	1077
Sony	0158, 1258, 1058, 1759
Soundesign	0670
Stereophonics	1023
Sunfire	1313
Teac	1074
Technics	0309, 0039, 1308, 1518
Thorens	1189
Victor	0074
Wards	0014, 0158, 0189
Yamaha	1276, 1176

TVs

Admiral	0093, 0463
Advent	0761, 0842, 0783, 0815, 0817
Aiko	0092
Aiwa	0701
Akai	0702, 0030, 0672
Alaron	0179
Albatron	0700, 0843
America Action	0180
Ampro	0751
Anam	0180
AOC	0030
Apex Digital	0765, 0879, 0748
Audiovox	0092, 0180, 0451, 0623
Aventura	0171
Bell & Howell	0154
BenQ	1032
Bradford	0180
Broksonic	0236, 0463
Candle	0030, 0056
Carnivale	0030
Carver	0054
Celebrity	0000
Celera	0765
Changhong	0765
Citizen	0056, 0030, 0060, 0092
Clarion	0180
Commercial Solutions	0047
Concerto	0056
Contec	0180
Craig	0180
Crosley	0054
Crown	0180
Curtis Mathes	0060, 0030, 0047, 0054, 0056, 0093, 0145, 0154, 0166, 0451, 0466, 0702
CXC	0180
Daewoo	0092, 0623, 0451, 0661, 1661, 0672
Dell	1264, 1080, 1178
Denon	0145
Dumont	0017
Durabrand	0171, 0463, 0178, 0180, 1034
Dwin	0720, 0774
Electroband	0000
Electrograph	1755
Elektra	0017, 1661
Emerson	0236, 0180, 0178, 0179, 0463, 0623, 0154, 0171
Envision	0030
Epson	0840
ESA	0171
Fisher	0154
Fujitsu	0809, 0179, 0683, 0853
Funai	0171, 0180, 0179
Futuretech	0180
Gateway	1755, 1756
GE	0047, 0051, 0178, 0451
Gibralter	0017, 0030
Go Video	0886
GoldStar	0030, 0178
Onkyo	0135, 0842
Optimus	1023, 0531, 1074, 0670
Panasonic	0039, 0309, 1518
Philips	0189, 1189, 1269
Pioneer	0014, 0150, 0531, 0630, 1023
Polk Audio	0189
Proscan	1254
Quasar	0039
RCA	1254, 1609, 0531, 1074, 1023
Sansui	0189
Sherwood	1077
Sony	0158, 1258, 1058, 1759
Soundesign	0670
Stereophonics	1023
Sunfire	1313
Teac	1074
Technics	0309, 0039, 1308, 1518
Thorens	1189
Victor	0074
Wards	0014, 0158, 0189
Yamaha	1276, 1176

Kenwood	0030
KLH	0765
KTV	0180, 0030
LG	0178, 0700, 0856, 1178
Luxman	0056
LXI	0154, 0047, 0054, 0156, 0178
Magnavox	0054, 0030, 0179, 0706
Marantz	0054, 1154, 0855, 0704, 0030
Matsushita	0250, 0650
Maxent	1755
Megapower	0700
Megatron	0145, 0178
Memorex	0179, 0463, 0178, 0150, 0154
MGA	0150, 0030, 0178
Midland	0017, 0047, 0051
Mitsubishi	0150, 1250, 0178, 0093, 0836, 0868
Monivision	0700, 0843
Motorola	0093
MTC	0060, 0030, 0056
Multitech	0180
NAD	0156, 0178
NEC	0030, 0497, 1704, 0882, 0056
NetTV	1755
Nikko	0178, 0030, 0092
Norcent	0824, 0748
NTC	0092
Onwa	0180
Optimus	0250, 0166, 0154, 0650
Optoma	0887
Optonica	0093
Orion	0179, 0236, 0463, 1463
Panasonic	0051, 0250, 0650, 1410
Penney	0047, 0060, 0030, 0178, 0051, 0156
Philco	0030, 0054
Philips	0054, 0690, 1154
Pilot	0030
Pioneer	0166, 0679
Portland	0092
Prima	0761, 0783, 0815, 0817
Princeton	0017, 0700
Prism	0051
Proscan	0047
Proton	0466, 0178
Pulsar	0017
Quasar	0051, 0250, 0650
RadioShack	0180, 0030, 0178, 0154, 0047, 0056
RCA	0047, 0679, 0090
Realistic	0180, 0154, 0030, 0178, 0056
Runco	0497, 0603, 0017, 0030
Sampo	1755, 0030
Samsung	0060, 0178, 0766, 0702, 0030, 0056
Sansui	0463
Sanyo	0799, 0154, 0893
Scott	0236, 0178, 0179, 0180
Sears	0154, 0156, 0047, 0054, 0056, 0171, 0178, 0179
Sharp	0093, 0491, 0851, 0688, 0689
Sheng Chia	0093
Sony	0000, 0834
Soundesign	0178, 0179, 0180
Squareview	0171
SSS	0180
Starlite	0180
Studio Experience	0843
Superscan	0864
Supreme	0000
SVA	0587, 0748, 0865
Sylvania	0054, 0171, 0030
Symphonic	0171, 0180
Tandy	0093
Tatung	1756, 1286
Technics	0051, 0250
Technol Ace	0179
Techwood	0051, 0056
Teknika	0054, 0179, 0180, 0092, 0056, 0060, 0150
Telefunken	0056, 0702
TMK	0056, 0178

TNGI	0017
Toshiba	0156, 0060, 0845, 1704, 0650, 0832, 1265, 0154
TVS	0463
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0178
Viewsonic	0864, 0857, 0885, 1755
Vizio	1756, 0864, 0885
Wards	0054, 0178, 0030, 0056, 0179
Waycon	0156
Westinghouse	0889
White Westinghouse	0623, 0463
Yamaha	0030, 0769
Zenith	0017, 0178, 0092, 0463

VCRs

ABS	1972
Admiral	0048, 0209
Adventura	0000
Aiwa	0000, 0037, 0124
Akai	0175
Alienware	1972
American High	0035
Asha	0240
Audiovox	0037
Beaumarck	0240
Bell & Howell	0104
Broksonic	0121, 0184, 0209, 0479, 1479
Calix	0037
Canon	0035
Carver	0081
Citizen	0037, 1278
Craig	0037, 0047, 0240
Curtis Mathes	0035, 0060, 0162, 1035
Cybernex	0240
CyberPower	1972
Daewoo	0045, 1278
Dell	1972
Denon	0042
DirecTV	0739
Durabrand	0039
Dynatech	0000
Electrohome	0037
Electrohome	0037
Emerex	0032
Emerson	0184, 0209, 0121, 0479, 0000, 0037, 0043, 1278, 1479
Fisher	0047, 0104
Fuji	0033, 0035
Funai	0000
Garrard	0000
Gateway	1972
GE	0035, 0060, 0240, 0807, 1035, 1060
GoldStar	0037, 1237
Gradiente	0000
Harley Davidson	0000
Harman/Kardon	0081
Hewlett Packard	1972
HI-Q	0047
Hitachi	0042, 0000, 0089
Howard Computers	1972
HP	1972
Hughes Network Systems	0739, 0042
Humax	0739
Hush	1972
iBUYPOWER	1972
JVC	0067
KEC	0037
Kenwood	0067
Kodak	0035, 0037
Linksys	1972
Lloyd's	0000
LXI	0037
Magnasonic	1278
Magnavox	0035, 0081, 0000, 0039, 1781
Magnin	0240
Marantz	0081, 0035
Marta	0037
Matsushita	0035, 0162

Media Center PC	1972
MEI	0035
Memorex	0104, 0047, 0479, 0000, 0037, 0048, 0035, 0240, 0039, 0162, 0209, 1237
MGA	0043, 0240
MGN Technology	0240
Microsoft	1972
Mind	1972
Minolta	0042
Mitsubishi	0043, 0067, 0807
Motorola	0035, 0048
MTC	0000, 0240
Multitech	0000
NEC	0067, 0104
Nikko	0037
Niveus Media	1972
Noblex	0240
Northgate	1972
Olympus	0035
Onkyo	0222
Optimus	0162, 0048, 1062, 0037, 0104
Orion	0479, 0184, 0209, 1479
Panasonic	0035, 0162, 1062, 0616, 0225, 1035
Penney	0035, 0240, 0037, 0042, 1035, 1237
Pentax	0042
Philco	0035, 0479
Philips	0081, 0739, 0035, 0618
Pilot	0037
Pioneer	0067
Polk Audio	0081
Profitronic	0240
Proscan	0060, 1060
Pulsar	0039
Quasar	0035, 0162, 1035
RadioShack	0000
Radix	0037
Randex	0037
RCA	0060, 0042, 1060, 0880, 0240, 0807, 1035
Realistic	0000, 0104, 0047, 0048, 0037, 0035
ReplayTV	0614, 0616
Ricavision	1972
Runco	0039
Samsung	1014, 0045, 0240
Sanky	0039, 0048
Sansui	0479, 0000, 0067, 0209, 1479
Sanyo	0047, 0104, 0159, 0240
Scott	0184, 0121, 0043, 0045
Sears	0042, 0000, 0035, 0037, 0047, 0104, 1237
Sharp	0048, 0807
Shogun	0240
Sonic Blue	0614, 0616
Sony	0033, 0032, 0636, 1972, 0000, 0035, 1232
Stack 9	1972
STS	0042
Sylvania	0000, 0035, 0043, 0081, 1781
Symphonic	0000
Systemax	1972
Tagar Systems	1972
Teac	0000
Technics	0035, 0162
Teknika	0000, 0035, 0037
Thomas	0000
Tivo	0739, 0618, 0636, 1503
TMK	0240
Toshiba	0045, 0845, 1008, 1503, 0043, 1145, 1972
Totevision	0037, 0240
Touch	1972
Unitech	0240
Vector	0045
Video Concepts	0045
Videomagic	0037
Videosonic	0240
Viewsonic	1972
Villain	0000
Voodoo	1972

Wards	0035, 0060, 0000, 0047, 0240, 0042, 0048, 0081
White Westinghouse	0209
XR-1000	0000, 0035
Zenith	0039, 0479, 0000, 0033, 0209, 1479

TV/VCR Combination Devices

Broksonic	0479, 1479
Citizen	1278
Curtis Mathes	1035
Daewoo	1278
Emerson	0479, 1278, 1479
Funai	0000
GE	0240, 0807, 1035, 1060
GoldStar	1237
Harley Davidson	0000
Hitachi	0000
Lloyd's	0000
Magnasonic	1278
Magnavox	0000, 1781
Magnin	0240
Memorex	0162, 1237
MGA	0240
Mitsubishi	0807
Optimus	0162
Orion	0479, 1479
Panasonic	0162, 1035
Penney	0240, 1035, 1237
Philco	0479
Quasar	0162, 1035
RadioShack	0000
RCA	0240, 0807, 1035, 1060
Samsung	1014
Sansui	0479, 0000, 1479
Sanyo	0240
Sears	0000, 1237
Sony	0000, 1232
Sylvania	1781
Symphonic	0000
Thomas	0000
Toshiba	0845, 1145
Zenith	0479, 0000, 1479

TV/VCR/DVD Combination Devices Controlled by the VCR Key

Sharp	0807
Akai	0899
Emerson	0821
Magnavox	0821
Panasonic	1362
RCA	1132
Sharp	0630