

CTU900
Universal Remote
Control



OVERVIEW

Your new CTU900 universal 4 in 1 remotes operate your Motorola or other manufacturer's cable set-top boxes and up to three other devices.

The CTU900 has the backlighting for the keypad illumination. Backlighting will turn on when you push any keys.

In addition, the CTU900 provides advanced features such as Digital Video Recording (DVR) control and Picture-in-Picture (PIP) control.

INSTALLING BATTERIES

Your remote requires 2 AA batteries, 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.

USING YOUR REMOTE

To select a device to control, simply press one of the device mode keys (TV, AUDIO, DVD/VCR, CABLE) the top of the 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.

Key	Function
	Turn the selected device ON or OFF Select a device
	Direct access to Video On Demand (VOD), where available
	Direct access to Pay Per View (PPV) Programming (where available)
	Rewind VCR, DVD, VOD, DVR, or HTIB

- Play VCR, DVD, VOD, DVR, or HTIB
- Fast Forward VCR, DVD, VOD, DVR, or HTIB
- Record to VCR or DVR
- Pause VCR, DVD, VOD or DVR
- Stop VCR, DVD, VOD or DVR
- Replay the previous few seconds of a program (only available with DVR models)
- Display a list of programs that you recorded. This will allow you to select one for viewing (only available with DVR models)
- Displays live television programming (only available with DVR models)
- Move up or down through menu screens or the Electronic Program Guide
- Display channel and program information
- 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
- Select the currently highlighted OSD menu or cable choice
- Exit any On-Screen Display (OSD) and return to regular viewing
- Access the cable guide
- View the previous or next day's cable guide
- Increase or decrease volume
- Select the next or previous channel
- Mute current audio feed
- Return to last selected channel
- 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
- Display the help screen (only available in CABLE mode)
- These functions are set by your cable provider
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- These functions are set by your cable provider

- 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."

Device Key	Control this type of device
TV	TV
DVD/VCR	DVD, VCR, DVR, HTIB, TV/VCR, TV/VCR/DVD, and TV/DVD
CABLE AUDIO	Cable box only 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 next 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 device.

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 VOL +.

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 VOL -.

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".

THE PRE-PROGRAMMED MACRO POWER KEY

Using the pre-programmed macro feature, the user is enabled to turn on and off the cable set top box and TV while the remote is set in Cable mode, with a single press of the power button.

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."

TV/VCR Combination Devices**Controlled by the TV key
TV / VCR combinación de dispositivos****Controlado por la tecla TV**
America Action 0180
Audiovox 0180
Emerson 0236**Controlled by the VCR key
Controlado por la tecla VCR**Broksonic 1479
Citizen 1278
Curtis Mathes 1035
Daewoo 1278
Emerson 1278,1479
Funai 0000
GE 0807,1035,1060
GoldStar 1237
Harley Davidson 0000
Hitachi / Lloyd's 0000
Magnasonic 1278
Magnavox 0000,1781
Memorex 0162,1237
Mitsubishi 0807
Optimus 0162
Orion 1479
Panasonic 0162,1035
Penney 1035,1237
Quasar 0162,1035
RadioShack 0000
RCA 0807,1035,1060
Samsung 1014
Sansui 0000,1479
Sears 0000,1237
Sony 1232,0000
Sylvania 1781
Symphonic / Thomas 0000
Toshiba 1145
Zenith 0000,1479**TV/VCR/DVD Combination Devices****Controlled by the VCR key
TV / VCR / DVD Dispositivos de
Combinación Controlado por la tecla VCR**

Sharp 0807

**Controlled by the DVD key
Controlado por la tecla DVD**Akai 0899
Broksonic 0868
Emerson / ESA 0821
Magnavox 0821
Panasonic 1362
Sharp 0630
Superscan / Sylvania 0821
Symphonic 0821
Toshiba 1045**VCRs**A-Mark / Accurian 0000
Admiral 0060,0039
Adventura / Aiwa 0000
Allegro 0039
Amstrad / Avis 0000
Bell & Howell 0039,0000
Broksonic 0184,1479
Citizen 0000,1278
Colortyme 0060
Coll / Criterion / Crosley 0000
Curtis Mathes 0060,0162,0000,1035
Daewoo 1278
Denon 0042
DirecTV 0739
Dual 0000
Durabrand 0039
Dynatech 0000
Electrohome 0060,0000,0043
Emerald 0184
Emerson 0184,0000,0043,1278,1479
Fisher 0039,0000
Fuji 0033
Fujitsu / Funai / Garrard 0000
GE 0060,0000,0807,1035,1060
Gemini 0060
Genexxa 0000
Go Video 0614
GoldStar 0039,0000,1237
Goodmans / Gradiente 0000
Granada 0042
Harley Davidson / HI-Q 0000
Hitachi 0000,0042
Hughes Network Systems 0739,0042
Humax 0739
Hytek 0000
Jensen / JVC / Kenwood 0067
KTV / Lloyd's / Logik 0000
LXI 0000,0042,0067
Magnasonic 0000,1278
Magnavox 0039,0000,0618,1781Matsushita 0162
Memorex 0162,0039,0000,1237
MGA 0060,0043
Minolta 0042
Mitsubishi 0060,0000,0042,0067,0043,0807
MTC / MTX 0000
Multitech 0039,0000
NEC 0067
Olympus 0162
Optimus 0162,0000
Orion 0184,0000,1479
Panasonic 0162,0000,0225,0614,0616,1035
Penney 0162,0000,0042,0067,1035,1237
Pentax 0042
Philco 0000
Philips 0739,0162,0000,0616,0618
Pioneer 0162,0042,0067
Proscan 0060,1060
Protec 0000
Pulsar 0039
Quasar 0162,1035
RadioShack 0162,0000
RCA 0060,0000,0042,0807,0880,1035,1060
Realistic 0162,0000
ReplayTV 0614,0616
Runco 0039
Samsung 0739,0060,0000,1014
Sanky 0039
Sansui 0000,0067,1479
Sanyo 0000
Scott 0184,0043
Sears 0060,0162,0039,0033,0000,0042,0067,0043
Sharp 0000,0807
Shintom 0039,0000
Signature 0060,0000
Sonic Blue 0614,0616
Sony 1232,0033,0000,0067,0636
Soundmaster 0000
STS 0042
SV2000 / SVA 0000
Sylvania 0000,0043,1781
Symphonic / Tandy 0000
Tatung / Teac 0000,0067
Technics 0162,0000
Teknika / Thomas 0000
Thomson 0060
Tivo 0739,0618,0636
TMK 0000
Toshiba 0000,0043,1145
Vector Research 0184
Victor 0067
Videosec / Villain 0000
Wards 0060,0033,0000,0042,0043
White Westinghouse 0000
/ XR-1000
Zenith 0039,0033,0000,1479**DVD/VCR Combination Devices
Controlled by the VCR key
DVD / VCR combinación de dispositivos
Controlado por la tecla VCR**Accurian / Hitachi 0000
/ Magnavox
RCA 0060
Sylvania / Symphonic 0000**Controlled by the DVD key
Controlado por la tecla DVD**Accurian 0675
Allegro 0869
Apex Digital 1061
Broksonic 0695
CineVision / Daewoo 0833,0869
Emerson / Funai / GFM 0675
Go Video 0715,0741,0833,0869,1075
GoldStar 0741
Hitachi 0664
JVC 0867
LG 0741
Magnavox 0675
Memorex 0695
Panasonic 1762
Philips 0675
Polaroid 1061
Presidian 0675
RCA 0522,0822
Samsung 0820,1075
Sansui 0695
Sanyo 0670,0873
Sharp 0630
Sony 0864,1033,1431
Sylvania / Symphonic 0675Toshiba 0503
Zenith 0741,0869**DVR Devices
Dispositivos de DVR**DirecTV 0739
Go Video 0614
Hughes Network Systems 0739
Humax 0739
Panasonic 0614,0616
Philips 0739,0618
RCA 0880
ReplayTV 0614,0616
Samsung 0739
Sonic Blue 0614,0616
Sony 0636
Tivo 0739,0618,0636**DVDs**3D LAB 0503,0539
Accurian 0675
Aiwa 0533
Akai 0695,0899
Alba 0672
Allegro 0869
Apex Digital 0533,0672,1061
Audiovox 0790
Blue Parade 0571
Blue Sky 0695
Bose 1895
Broksonic 0695,0868
California Audio Labs 0490
Centrex 0672
CineVision 0833,0869
Citizen 0695
Clairtone 0571
Creative 0503,0539
Curtis Mathes 1087
CyberHome 0816
Daewoo 0784,0833,0869
Denon 0490,2258
Digitrex 0672
Disney 0675,1270
Dual 0675
DVD2000 0521
Electrohome 1003
Emerson 0591,0675,0821,1268
Enterprise 0591
Entivo 0503,0539
ESA 0821,1268
Fisher 0670
Funai 0675,1268
GE 0522,0815
GFM 0675,1268
Go Video 0573,0715,0741,0783,0833,0869,1075
GoldStar 0741,0869
Goodmans 0790
Gradiente 0490
Grundig 0539
Hitachi 0573,0664
Hiteker 0672
iLo 1348
Insignia 1268
Integra 0571,1769
IRT 0783
JMB 0695
JVC 0558,0623,0867
Kawasaki 0790
Kenwood 0490,0534
KLH 0790
Kloss 0533
Koss 1061
Lecson 1533
LG 0591,0741,0869
LiteOn 1058
Loewe 0741
Logix 0783
Magnasonic 0675
Magnavox 0503,0539,0646,0675,0821,1268,1354
Marantz 0503,0539,0675
McIntosh 1533
Memorex 0695,1270
Microsoft 0522,2083
Mitsubishi 1521,0521
NAD 0741
NEC 0869
Norcent 1003
Onkyo 0503,1769
Optimus 0571
Palsonic 0672
Panasonic 0490,0503,0571,0632,1362,1641,1762,1907,1990
Philco 0675
Philips 0503,0539,2056,2084,0646,0675,0854,1354
Pioneer 0525,0571,0142,0631,0632
Polaroid 1061
Polk Audio 0539Presidian 0675
Proceed 0672
Proscan 0522
Radionette 0741
RadioShack 0571
RCA 0522,0571,1769,0790,0822,1022
Realistic 0571
Rio 0869
Rotel 0623
Samsung 0490,0573,0199,0820,0899,1075,1932
Sansui 0695
Sanyo 0670,0675,0695,0873
Schneider 0783
Sharp 0630,0675,1256,2250
Shinasonic 0533
Slim Art 0784
Sonic Blue 0573,0715,0783,0869
Sony 1533,0533,0864,1033,1431,1516,1903,1934
Superscan 0821
Sylvania 0675,0821,1268
Symphonic 0675,0821,1268
Teac 0571,0790
Technics 0490
Theta Digital 0571
Thomson 0522
Tivo 1503
Toshiba 0503,0573,0539,1769,0695,1045,1503
Universum 0591
Urban Concepts 0503,0539
Venturer 0790
Xbox 0522,2083
Yamaha 0490,0539,0646,0545
Zenith 0503,0591,0741,0869
Zeus 0784**HD DVD**Denon 2258
Integra 1769
LG 0741
Microsoft 2083
Onkyo 1769
Panasonic 1641
Philips 2084
Pioneer 0142
RCA 1769
Samsung 0199
Sharp 2250
Sony 1516
Toshiba 1769
Xbox 2083