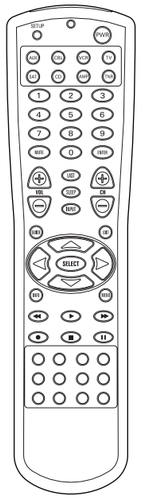
FUNAI

CATALYST™ 48
UNIVERSAL REMOTE CONTROL



USER GUIDE

INTRODUCTION

The Catalyst™ 48 Universal Remote Control, developed by Universal Electronics, Inc. for Funai, is the complete solution for all of your remote control requirements. It is designed to operate from four to eight devices with the emphasis on features and functions of your dedicated component(s).

The Catalyst 48 requires two (2) fresh AA alkaline batteries (not included) and some easy programming to control your devices. For best results, please read and perform all instructions listed here. Also, keep these instructions for future reference.

FEATURES AND FUNCTIONS

Use the *Key Charts* to learn how the Catalyst 48 functions.

Key Charts

○	The **LED** (red light) blinks to show that the remote control is working and is sending signals.
SETUP ○	Use **SETUP** for all programming sequences.
PWR	Press **PWR** once to turn on or off the selected home entertainment component.
AUX CBL VCR TV SAT CD AMP TNR	Press **AUX**, **CBL**, **VCR**, **TV**, **SAT**, **CD**, **AMP**, or **TNR** once to select a home entertainment component to control.
1 2 3 4 5 6 7 8 9 0	Use the keypad (**0 ~ 9**) to directly select channels (for example, 09 or 31).
MUTE	Press **MUTE** once to turn sound off or on.
ENTER	Press **ENTER** once after entering channel numbers on some TV models.
VOL	Use **VOL +** (or **VOL -**) to raise (or lower) the sound volume.
CH	Use **CH +** (or **CH -**) to select the next higher (or lower) channel.
LAST	Press **LAST** once to recall the last channel and to page back one screen in the main menu.
SLEEP	Press **SLEEP** to activate your TV's sleep timer. Or if none is available, press **SLEEP** to activate the Catalyst 48's sleep timer for automatic shut-off of your TV. Each key press (up to four) add 15 minutes to the sleep timer.
INPUT	Press **INPUT** once to switch the input of the chosen component.
GUIDE	Use **GUIDE** to display the program guide.
EXIT	Use **EXIT** to exit out of the selected component's menu or guide.
	Use the cursor keys to move the cursor in the program guide and menu screens.
SELECT	Use **SELECT** to choose options from your selected component's menu or guide.
INFO	Use **INFO** to display current channel and program information.
MENU	Press **MENU** to access the menu of your chosen component.
◀◀ ▶ ▶▶ ● ■ ❚❚	Use the transport keys to control your VCR, or CD or DVD player.
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Use these keys for specific features on your dedicated components.

INSTALLING BATTERIES

1. On the back of the Catalyst 48, push the tab and lift off the battery cover.
2. Obtain two (2) fully-charged AA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.
3. Press the battery cover back into place. The tab should click when the cover is locked.
4. Test the unit by pressing **PWR** and any mode key (e.g., **AUX**, **CBL**, **VCR**, etc.). If the batteries are inserted correctly, the LED will blink once.

   NOTE: When batteries need replacement, the Catalyst 48 will blink twice with every key press. Simply replace them and the remote control will be restored to its full functionality, including favorite settings.

PROGRAMMING COMPONENT CONTROL

The Catalyst 48 can control up to eight different components. Perform the following instructions for each component you want controlled:

NOTE: For TV/VCR Combo control, see the next section.

1. Turn on a component (e.g., VCR) and, if applicable, insert media, (e.g., cassette or disc).

   NOTE: Please read steps 2-4 completely before proceeding. We recommend highlighting or writing down the codes and device you wish to program before moving onto step 2.

2. On the Catalyst 48, press a component key once (i.e., **AUX**, **CBL**, **VCR**, **TV**, **SAT**, **CD**, **AMP**, or **TNR**). Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
3. Use the *Manufacturer's Codes* (on the back side) to locate the the type of component and brand name and then enter the first four-digit code for your component. If performed correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Catalyst 48 at the component and press **PWR** once. It should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code*).

   *NOTE: If the device does not have a PWR key, press **PLAY**.*

5. If you've located a setup code that works, but it has a separate TV code, you'll also need to program it into the Catalyst 48 to access volume control as follows:

   a. Press **TV** once. The LED will blink twice.

   b. Enter the TV code for your TV/VCR Combo. If correct, the LED will blink twice.

   If there is no separate TV code listed, you will need to perform the following steps to access volume control:

   a. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

   b. Enter **9 - 9 - 3** . The LED will blink twice.

   c. Press **VCR** once. The LED will blink twice.

4. Aim the Catalyst 48 at the component and press **PWR** once. It should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code*).

   *NOTE: If the device does not have a PWR key, press **PLAY**.*

5. Repeat steps 1 through 4 for each component you want the Catalyst 48 to control.

PROGRAMMING TV/VCR COMBO CONTROL

Perform the following instructions to control a TV/VCR Combo:

1. Turn on the TV/VCR Combo and insert a video cassette.

   NOTE: Please read steps 2-4 completely before proceeding. We recommend highlighting or writing down the code for the brand you wish to program before moving onto step 2.

2. On the Catalyst 48, press **VCR**. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
3. Use the *Setup Codes For TV/VCR Combos* (on the back side) to locate the brand name and then enter the first four-digit code for your component. If performed correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Catalyst 48 at the component and press **PWR** once. It should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code*).

   *NOTE: If the device does not have a PWR key, press **PLAY**.*

5. If you've located a setup code that works, but it has a separate TV code, you'll also need to program it into the Catalyst 48 to access volume control as follows:

   a. Press **TV** once. The LED will blink twice.

   b. Enter the TV code for your TV/VCR Combo. If correct, the LED will blink twice.

   If there is no separate TV code listed, you will need to perform the following steps to access volume control:

   a. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

   b. Enter **9 - 9 - 3** . The LED will blink twice.

   c. Press **VCR** once. The LED will blink twice.

SEARCHING FOR YOUR CODE

If your device does not respond to the Catalyst 48 after trying all codes listed for your brand, or if your brand is not listed at all, try searching for your code. For example, to search for a code for your TV:

1. On the Catalyst 48, press **TV** once.
2. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
3. Enter **9 - 9 - 1**. The LED will blink twice.
4. Aim the remote control at the the TV and slowly alternate between pressing **PWR** and **TV**. Stop when the TV turns off.

   NOTE: In the search mode, the Catalyst 48 will send IR codes from its library to the selected device, starting with the most popular code first.

5. Press **SETUP** once to lock in the code.
6. To search for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., **AUX**, **CBL**, **VCR**, **SAT**, **CD**, **AMP**, or **TNR**) for the (Auxiliary, VCR, Cable, Satellite, CD, Amplifier, or Tuner) component you are searching for.

CHECKING THE CODES

If you have set up the Catalyst 48 using the *Searching For Your Code* procedure, you may need to find out which four-digit code is operating your equipment:

For example, to find out which code is operating your TV:

1. On the Catalyst 48, press **TV** once.
2. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
3. Enter **9 - 9 - 0**. The LED will blink twice.
4. To view the code for the first digit, press **1** once. Wait 3 seconds, count the LED blinks (e.g., 3 blinks = 3) and write down the number.

   NOTE: If a code digit is "0", the LED will not blink.

5. Repeat step 4 three more times for remaining digits. Use **2** for the second digit, **3** for the third digit, and **4** for the fourth digit.
6. To check for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., **AUX**, **CBL**, **VCR**, **SAT**, **CD**, **AMP**, or **TNR**) component you are checking. As before, write down each four-digit code.

RE-ASSIGNING DEVICE KEYS

The Catalyst 48 can be set up to control a second TV or VCR, or any combination of eight home entertainment components.

For example, to have the Catalyst 48 control a TV, a Cable Converter, and two VCRs, you will need to re-assign the unused **AUX** key to operate the second VCR as follows:

1. On the Catalyst 48, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9 - 9 - 2**. The LED will blink twice.
3. Press **VCR** once, then press **AUX** once.
4. The **AUX** key is now ready to be programmed for your second VCR. See *Programming Component Control*.

To re-assign other device keys, repeat steps 1 through 4 by substituting the key sequence from the below chart for the most popular components:

To Re-Assign Key Sequence	Perform
TV as 2nd VCR key:	**SETUP - 9 - 9 - 2 - VCR - TV**
TV as 2nd CBL key:	**SETUP - 9 - 9 - 2 - CBL - TV**
TV as 2nd AUX key:	**SETUP - 9 - 9 - 2 - AUX - TV**
TV as 2nd TNR key:	**SETUP - 9 - 9 - 2 - TNR - TV**
TV as 2nd AMP key:	**SETUP - 9 - 9 - 2 - AMP - TV**
TV as 2nd CD key:	**SETUP - 9 - 9 - 2 - CD - TV**
TV as 2nd SAT key:	**SETUP - 9 - 9 - 2 - SAT - TV**
TV back to **TV**:	**SETUP - 9 - 9 - 2 - TV - TV**
VCR as 2nd TV key:	**SETUP - 9 - 9 - 2 - TV - VCR**
VCR as 2nd CBL key:	**SETUP - 9 - 9 - 2 - CBL - VCR**
VCR as 2nd AUX key:	**SETUP - 9 - 9 - 2 - AUX - VCR**
VCR as 2nd TNR key:	**SETUP - 9 - 9 - 2 - TNR - VCR**
VCR as 2nd AMP key:	**SETUP - 9 - 9 - 2 - AMP - VCR**
VCR as 2nd CD key:	**SETUP - 9 - 9 - 2 - CD - VCR**
VCR as 2nd SAT key:	**SETUP - 9 - 9 - 2 - SAT - VCR**
VCR back to **VCR**:	**SETUP - 9 - 9 - 2 - VCR - VCR**
AUX as 2nd TV key:	**SETUP - 9 - 9 - 2 - TV- AUX**
AUX as 2nd VCR key:	**SETUP - 9 - 9 - 2 - VCR - AUX**
AUX as 2nd CBL key:	**SETUP - 9 - 9 - 2 - CBL - AUX**
AUX as 2nd TNR key:	**SETUP - 9 - 9 - 2 - TNR - AUX**
AUX as 2nd AMP key:	**SETUP - 9 - 9 - 2 - AMP - AUX**
AUX as 2nd CD key:	**SETUP - 9 - 9 - 2 - CD - AUX**
AUX as 2nd SAT key:	**SETUP - 9 - 9 - 2 - SAT - AUX**
AUX back to **AUX**:	**SETUP - 9 - 9 - 2 - AUX - AUX**

When a re-assignment is done, the LED will blink twice to confirm your choice. At that time, you will need to program the Catalyst 48 to control the new component (see *Programming Component Control*).

CHANGING VOLUME LOCK

The Catalyst 48 is set to control volume of a component through your TV while in the TV, VCR, Cable, or Satellite mode. However, in an Audio mode (i.e., **TNR**, **AMP**, or **CD**), you have separate control of your audio component's volume.

If your TV is not remote controllable, or if you want volume to be controlled by a different component, you can change the Volume Lock setting to control a volume through a non-associated mode (e.g., through the cable in the TV mode).

To change Volume Lock to the another mode:

1. On the Catalyst 48, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9 - 9 - 3** and then press any mode key once (except **TV**). The LED will blink twice.
3. Now, whenever you press **VOL +**, **VOL –**, or **MUTE**, volume will be controlled by your mode choice.

To change Volume Lock back to the TV mode:

1. On the Catalyst 48, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter **9 - 9 - 3** and then press **TV**. The LED will blink twice.
3. Now, whenever you press **VOL +**, **VOL –**, or **MUTE** on the Catalyst 48, volume will be controlled by your TV.

TROUBLESHOOTING

PROBLEM:	LED does not blink when you press a key.
SOLUTION:	Replace the batteries with two (2) new AA alkaline batteries.
PROBLEM:	LED blinks when you press a key, but home entertainment component does not respond.
SOLUTION:	Make sure the Catalyst 48 is aimed at your home entertainment component and is not farther than 15 feet away.
PROBLEM:	Catalyst 48 does not control home entertainment components or commands are not working properly.
SOLUTION:	Try all listed codes for the component brands being set up. Make sure they can be operated with an infrared remote control.
PROBLEM:	TV/VCR combo does not respond properly.
SOLUTION:	Use the VCR codes for your brand. Some combo units may require both a TV code and a VCR code for full operation.
PROBLEM:	No volume on a 2nd TV.
SOLUTION:	Follow instructions in *Changing Volume Lock*.
PROBLEM:	**CH+** , **CH–** , and **LAST** do not work for your RCA TV.
SOLUTION:	Due to RCA design (1983-1987), only the original remote control will operate these functions.
PROBLEM:	Changing channels does not work properly.
SOLUTION:	If original remote control required pressing ENTER to change channels, press **ENTER** on the Catalyst 48 after entering the channel number.
PROBLEM:	Tried "Search Method" and still could not find a working code.
SOLUTION:	Try the "Search Method" again after clearing out the device key as follows: Press and hold **SETUP** until the red light blinks twice, then release. Next enter **9 - 9 - 2**. Then press and release the device key to be cleared twice.

Continued on back...

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TROUBLESHOOTING (CONT'D)

PROBLEM: Remote control does not turn on Sony or Sharp TV/VCR Combo.

SOLUTION: For power on, these products require programming TV codes. For Sony, use TV code 0000 and VCR code 0032. For Sharp, use TV code 0093 and VCR code 0048.

MANUFACTURER'S CODES

Setup Codes for Audio Amplifiers:

GE	0078
Harman/Kardon	0892
JVC	0331
Marantz	0892
Optimus	0395
Philips	0892
Polk Audio	0892
Realistic	0395
Sony	0689
Soundesign	0078
Victor	0331
Wards	0078
Yamaha	0354

Setup Codes for Audio Receivers or Tuners :

ADC	0531
Aiwa	0121, 1405, 1089
Capetronic	0531
Carver	1089, 1189
Denon	1160, 1104
Harman/Kardon	0110
JBL	0110
JVC	0074
Kenwood	1027, 0186, 1313, 1569, 1570
MCS	0039
Magnavox	1089, 0531, 1189
Marantz	1189, 1089, 0039
Onkyo	0135
Optimus	1023, 0186, 0531, 0670
Panasonic	0039, 1518
Philips	1089, 1189, 1269
Pioneer	0150, 0531, 0630, 1023
Proscan	1254
Quasar	0039
RCA	1254, 0531, 1023
Sansui	1089
Sharp	0186
Sony	1158, 1058, 1258
Soundesign	0670
Sunfire	1313
Technics	0039, 1308, 1518, 1309
Thorens	1189
Victor	0074
Yamaha	0176, 0186, 1176

Setup Codes for Cable Coverters:

ABC	0003, 0017
Americast	0899
Bell South	0899
General Instrument	0276, 0476, 0810
GoldStar	0144
Hamlin	0009, 0273
Jerrold	0003, 0276, 0476, 0810
Memorex	0000
Motorola	1106
Pace	0237
Panasonic	0107, 0000
Paragon	0000
Philips	0305, 0317
Pioneer	0144, 0533, 0877
Pulsar	0000
Quasar	0000
Regal	0273, 0279
Runco	0000
Samsung	0144
Scientific Atlanta	0017, 0477, 0877
Starcom	0003
Toshiba	0000
Zenith	0000, 0525, 0899

Setup Codes for CD Players:

Aiwa	0157
Burmester	0420
Cal. Audio Labs	0029
Carver	0157, 0179
DKK	0000
Denon	0003, 0873
Emerson	0305
Fisher	0179
Garrard	0420
Genexxa	0032, 0305
Harman/Kardon	0157, 0173
Hitachi	0032
JVC	0072
Kenwood	0028, 0190, 0826, 0037, 0626, 0681
Krell	0157
LXI	0305
Linn	0157
MCS	0029
MTC	0420
Magnavox	0157, 0305
Marantz	0157, 0626, 0029
Mission	0157
NSM	0157
Onkyo	0101, 0868
Optimus	0032, 0468, 0420, 0179, 0305, 1063, 0000, 0037, 0145
Panasonic	0029
Parasound	0420
Philips	0157, 0626
Pioneer	0032, 0468, 0305, 1062, 1063
Polk Audio	0157
Proton	0157
QED	0157
Quasar	0029
RCA	0053, 0032, 1062, 0468, 0305, 0179
Realistic	0179, 0420
Rotel	0157, 0420
SAE	0157
Sansui	0157, 0305
Sanyo	0179
Scott	0305
Sears	0305
Sharp	0037, 0861
Sherwood	1067
Sonic Frontiers	0157
Sony	0000, 0490
Soundesign	0145
Tascam	0420
Teac	0420
Technics	0029
Victor	0072
Wards	0053, 0157
Yamaha	0036, 0888

Setup Codes for DVD Players:

Apex	0672
Denon	0490
Emerson	0675, 0821
Fisher	0670
FUNAI	**0675, 1334**
GE	0522
Gradiente	0651
Hitachi	0573, 0664
Hiteker	0672
JVC	0623, 0558
Kenwood	0682, 0534
Konka	0719, 0711, 0720, 0721
Magnavox	0675, 0821, 0503, 0675
Marantz	0539
Mitsubishi	0521
Onkyo	0503
Optimus	0571
Oritron	0651
Panasonic	0490, 0677, 0632
Philips	0539, 0503
Pioneer	0571, 0525, 0632
Proscan	0522
RCA	0522, 0571
Samsung	0573
Sharp	0630
Sony	0533
Superscan	0821
Sylvania	0675, 0821
Symphonic	0675
Technics	0490
Theta Digital	0571
Toshiba	0503
Yamaha	0490, 0545
Zenith	0591, 0503

Setup Codes for DVD Player/ VCR Combos:

Sylvania	0593
Symphonic	0675

Setup Codes for Home Automation:

GE	0240
One For All	0167
Radio Shack	0240
Security System	0167
Universal X10	0167
X10	0167

Setup Codes for Satellite Receivers:

AlphaStar	0772
Chaparral	0216
Echostar	0775, 1005
Expressvu	0775
GE	0566
General Instrument	0869
HTS	0775
Hitachi	0819
Hughes Net. Sys.	0749, 1142, 1749
JVC	0775
Magnavox	0722, 0724
Memorex	0724
Mitsubishi	0749
Next Level	0869
Panasonic	0247, 0701
Philips	1076, 1142, 0722, 0724, 0749
Proscan	0392
RCA	0566, 0392, 0143, 0855
Radio Shack	0869
Samsung	1109
Sony	0639
Star Choice	0869
Toshiba	0749, 0790
Uniden	0724, 0722
Zenith	0856

Setup Codes for TVs:

AOC	0019, 0030
Admiral	0093, 0463
Aiko	0092
Aiwa	0701
Akai	0030
Alaron	0179
America Action	0180
Anam	0180
Audiovox	0092, 0180, 0451, 0623
Baysonic	0180
Belcor	0019
Bell & Howell	0016, 0154
Bradford	0180
Brockwood	0019
Broksonic	0236, 0463
CXC	0180
Candle	0030, 0056
Carnivale	0030
Carver	0054
Celebrity	0000
Cineral	0451, 0092
Citizen	0056, 0030, 0060, 0092
Concerto	0056
Contec	0180
Craig	0180
Crosley	0054
Crown	0180
Curtis Mathes	0060, 0030, 0016, 0047, 0051, 0054, 0056, 0093, 0145, 0154, 0166, 0451, 1147, 1347
Daewoo	0092, 0623, 0019, 0624, 0451
Daytron	0019
Denon	0145
Dumont	0017, 0019
Durabrand	0171
Electroband	0000
Emerson	0171, 0236, 0180, 0178, 0179, 0463, 0624, 0623, 0019, 0154
Envision	0030
Fisher	0154
Fujitsu	0179, 0683
FUNAI	**0171, 1271, 0180, 0179**
Futuretech	0180
GE	0047, 1347, 0051, 0178, 0451, 1147, 0093
Gibralter	0017, 0019, 0030
GoldStar	0178, 0019, 0030, 0056
Gradiente	0056, 0053
Grunpy	0179, 0180
Hallmark	0178
Harley Davidson	0179
Harman/Kardon	0054
Harvard	0180
Hitachi	0145, 0056, 0016
Infinity	0054
Inteq	0017
JBL	0054
JCB	0000
JVC	0053
KEC	0180
KTV	0180, 0030
Kenwood	0030, 0019
Konka	0707, 0632, 0628, 0638, 0703
LG	0056
LXI	0154, 0047, 0054, 0156, 0178
Logik	0016
Luxman	0056
MGA	0150, 0019, 0030, 0178
MTC	0060, 0030, 0019, 0056
Magnavox	0054, 0030, 0179, 1254
Majestic	0016
Marantz	0054, 0030
Matsushita	0250
Megatron	0145, 0178
Memorex	0179, 0463, 0178, 0016, 0056, 0150, 0154, 0250
Midland	0017, 0047, 0051
Mitsubishi	0150, 0178, 0019, 0093
Motorola	0093
Multitech	0180
NAD	0156, 0166, 0178
NEC	0030, 0019, 0056
NTC	0092
Nikko	0178, 0030, 0092
Onwa	0180
Optimus	0250, 0166, 0154
Optonica	0093
Orion	0463, 0179, 0236
Panasonic	0051, 0250
Penney	0047, 1347, 0060, 0030, 0178, 0051, 0019, 0056, 0156
Philco	0145, 0019, 0030, 0054, 0463
Philips	0054
Pilot	0019, 0030
Pioneer	0166, 0679
Portland	0019, 0092
Princeton	0717
Prism	0051
Proscan	0047
Proton	0178
Pulsar	0017, 0019
Quasar	0051, 0250
RCA	0047, 1347, 1147, 0679, 1247, 0019, 0051, 0090, 0093, 1047, 1447
RadioShack	0180, 0030, 0178, 0154, 0019, 0047, 0056
Realistic	0180, 0154, 0030, 0178, 0019, 0056
Runco	0017, 0030
SSS	0019, 0180
Sampo	0030
Samsung	0060, 0019, 0178, 0030, 0056
Sansei	0451
Sansui	0463
Sanyo	0154
Scimitsu	0019
Scotch	0178
Scott	0236, 0019, 0178, 0179, 0180
Sears	0171, 0154, 0056, 0156, 0047, 0054, 0178, 0179
Semivox	0180
Semp	0156
Sharp	0093, 0688
Shogun	0019
Signature	0016
Sony	0000
Soundesign	0178, 0179, 0180
Squareview	0171
Starlite	0180
Supreme	0000
Sylvania	0171, 0054, 0030
Symphonic	0171, 0180
TMK	0056, 0178
TNCi	0017
Tandy	0093
Technics	0051, 0250
Technol Ace	0179
Techwood	0051, 0056
Teknika	0016, 0054, 0179, 0180, 0019, 0092, 0056, 0060, 0150
Telefunken	0056
Toshiba	0156, 0060, 0154, 1256
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0019, 0178
Wards	0054, 0178, 0016, 0019, 0030, 0056, 0179
White Westinghouse	0624, 0623, 0463
Yamaha	0019, 0030
Zenith	0017, 0624, 0016, 0092, 0463

Setup Codes for TV/DVD Player Combos:

Sylvania	0171, 0675

Setup Codes for TV/VCR Combos:

American High	0035 (for TV use 0051)
Brocksonic	0002, 0294,
Colt	0072
Curtis Mathis	0035 (for TV use 0051)
Daewoo	0278
Emerson	0002, 0294, 0479
FUNAI	**0000**
GE	0035 (for TV use 0051), 0060 (for TV use 0047), 0048 (for TV use 0093), 0240
Hitachi	0035 (for TV use 0051), 0000
HQ	0000
Lloyd's	0000
MGA	0240
Magnasonic	0593
Magnavox	0593, 0081 (for TV use 0054), 0035 (for TV use 0051), 0000
Magnin	0240
Memorex	0037, 0162 (for TV use 0250)
Mitsubishi	0048 (for TV use 0093)
Optimus	0593
Orion	0002, 0294, 0479
Panasonic	0035 (for TV use 0051), 0162 (for TV use 0250)
Penney	0035 (for TV use 0051), 0240, 0162 (for TV use 0250)
Quasar	0035 (for TV use 0051), 0162 (for TV use 0250)
RCA	0060 (for TV use 0047), 0035 (for TV use 0051), 0048 (for TV use 0093)
Sansui	0000, 0479
Sanyo	0240
Sears	0000, 0037
Sharp	0048 (for TV use 0093)
Sony	0032 (for TV use 0000)
Symphonic	0593, 0000
Zenith	0000

Setup Codes for VCRs:

Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0000, 0037
America Action	0278
American High	0035
Asha	0240
Audiovox	0037
Beaumark	0240
Bell & Howell	0104
Broksonic	0121, 0184, 0002, 0209, 0479
CCE	0072, 0278
Calix	0037
Canon	0035
Carver	0081
Cineral	0278
Citizen	0278, 0037
Colt	0072
Craig	0037, 0072, 0047, 0240
Curtis Mathes	0035, 0060, 0162
Cybernex	0240
Daewoo	0278, 0045
Denon	0042
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	1593, 0184, 0002, 0209, 0278, 0121, 0479, 0000, 0037, 0043
Fisher	0047, 0104
Fuji	0033, 0035
FUNAI	**1593, 0000**
GE	0035, 0060, 0048, 0240
Garrard	0000
Go Video	0432
GoldStar	0037, 0038
Gradiente	0000
HI-Q	0047
Harley Davidson	0000
Harman/Kardon	0038, 0081
Harwood	0072
Hitachi	0042, 0000
Hughes Net. Sys.	0042
JVC	0067
KEC	0037, 0278
KLH	0072
Kenwood	0067, 0038
Kodak	0035, 0037
LXI	0037
Lloyd's	0000
Logik	0072
MEI	0035
MGA	0043, 0240
MGN Technology	0240
MTC	0000, 0240
Magnasonic	0593, 0278
Magnavox	0593, 0035, 0081, 0563, 0000, 0039, 0149
Magnin	0240
Marantz	0081, 0035
Marta	0037
Matsushita	0035, 0162
Memorex	0104, 0047, 0479, 0000, 0037, 0048, 0035, 0240, 1037, 0039, 0162, 0209, 1162, 1262
Minolta	0042
Mitsubishi	0043, 0048, 0067
Motorola	0035, 0048
Multitech	0000, 0072
NEC	0038, 0067, 0104
Nikko	0037
Noblex	0240
Olympus	0035
Optimus	0593, 0162, 1062, 1162, 0048, 1262, 0037, 1048, 0104, 0432
Orion	0479, 0002, 0184, 0209
Panasonic	0035, 0162, 1162, 1262, 1362, 0616, 1062
Penney	0035, 0240, 0037, 0042, 0038
Pentax	0042
Philco	0035, 0209, 0479
Philips	0081, 0035, 0618, 1081, 1181
Pilot	0037
Pioneer	0067
Polk Audio	0081
Profitronic	0240
Proscan	0060
Protec	0072
Pulsar	0039
Quasar	0035, 0162, 1162
RCA	0060, 0149, 0042, 0035, 0048, 0240
RadioShack	0000, 1037
Radix	0037
Randex	0037
Realistic	0000, 0104, 0047, 0048, 0037, 0035
ReplayTV	0614, 0616
Runco	0039
STS	0042
Samsung	0045, 0240
Sanky	0039, 0048
Sansui	0479, 0000, 0067, 0209
Sanyo	0047, 0104, 0240
Scott	0184, 0121, 0043, 0045
Sears	0037, 0042, 0000, 0035, 0047, 0104
Semp	0045
Sharp	0048
Shintom	0072
Shogun	0240
Singer	0072
Sony	0033, 0032, 0000, 0035, 0636, 1032
Sylvania	0593, 1593, 0035, 0081, 0000, 0043
Symphonic	1593, 0593, 0000
TMK	0240
Teac	0000
Technics	0035, 0162
Teknika	0000, 0035, 0037
Thomas	0000
Tivo	0618, 0636
Toshiba	0045, 0043
Totevision	0037, 0240
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045
Videosonic	0240
Wards	0035, 0060, 0000, 0047, 0240, 0042, 0048, 0072, 0081, 0149
White Westinghouse	0072, 0278, 0209
XR-1000	0072, 0000, 0035
Yamaha	0038
Zenith	0039, 0000, 0033, 0209, 0479

Setup Codes for Video Accessories:

Panasonic	1120
Pioneer	1010
Sensory Science	1126
Sharp	1010
Sylvania	1563

ADDITIONAL INFORMATION

The Catalyst 48 does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your Catalyst 48.

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