XRC 200 Universal Remote Control



Made in the Philippines

General Instrument®

GETTING STARTED

Congratulations! Your XRC 200 universal remote control brings new convenience to television viewing. By pressing a few keys, you can see what is on TV, select a program to watch, set up to record programs on your VCR, and much more.

The XRC 200 universal remote control has been designed to control most TV sets and VCRs on the market today as well as your cable device, eliminating the frustration of having to use several remote controls

Before you start to program your remote control, please read the following important instructions.

The XRC 200 enables you to:

- Control multiple devices such as a cable device, TV, and VCR.
- Control an auxiliary device such as a second TV or VCR or a digital audio tuner.
- Control the volume through your TV while in Cable mode. (Refer to Programming Volume Control later in this brochure.)
- Control services such as Digital Music Express[™] and Music ChoiceSM.

REPLACING THE BATTERIES

Use two fresh 1.5 volt, AA batteries. To install or replace the batteries:

- Slide the battery door open on the back of the remote control.
- 2 Remove the old batteries, and insert the new ones as indicated.
- **3** Slide the battery door closed until it snaps into place.
- 4 Point the remote control at your cable device, press CABLE, and then press POWER. The CABLE key lights.

If the key does not light, check the battery orientation, or replace the batteries as needed.

If you replace the batteries within a few hours after removing the old batteries, you will not need to reprogram the remote control.



Use the mode keys to switch co which device is being controlled For example, to change the VCI control your cable device, press control the same device until yo The illustration below identifies user guides for more information

Select device mode -

Displays help screen

Pages up through menu scr and program guide ———

Exits from the program guide

Move cursor in program gui and menu screens —

Displays program guide —

Adjusts volume -

Scans through favorite char or swaps picture-in-picture

Moves program guide back 24 hours

Selects last previous start time in NVOD system -

Programs converter and VC to record the selected progr

Functions set by your cable system operator —

Select channels (0-9) ----

Operates RF bypass switch or switches between TV and

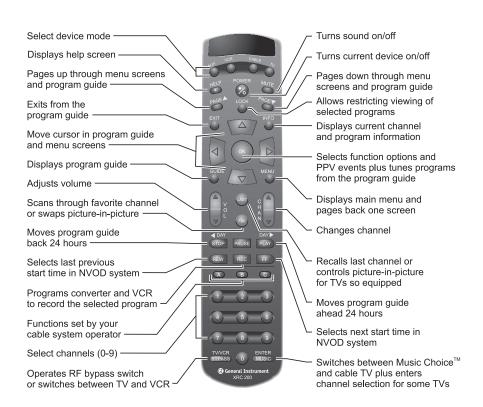
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USING THE KEYBOARD

Use the mode keys to switch control to a device. The four mode keys (AUX, VCR, CABLE, or TV) light to indicate which device is being controlled.

For example, to change the VCR channel, press VCR and then press the desired channel number key(s). To control your cable device, press CABLE and then press a function key. The remote control will continue to control the same device until you press another mode key.

The illustration below identifies the keys on your remote control. See your cable device and digital audio user quides for more information.



PROGRAMMING YOUR XRC 200

You are now ready to program the remote control. Find the codes for your set top terminal, TV, VCR, and any auxiliary device in the Device Codes section at the end of this guide.

Please note the following:

- All codes are three-digit numbers. As you program for each mode, write down the correct codes in the spaces provided for future reference.
- For many devices, more than one code is listed. In these cases, start with the first code.
- If you do not press the next key within 10 seconds, the whole sequence will be erased and you will have to start over. This prevents you from accidentally reprogramming the remote control during regular viewing.
- After you program the remote control, check the device functions. If a primary function does not operate, you can try another device code listed in the Device Codes section for the manufacturer. If the device does not respond, refer to Finding the Correct Device Code later in this guide.

PROGRAMMING FOR YOUR CABLE DEVICE, TV, AND VCR

The XRC 200 is already programmed to control the General Instrument CFT2200 and DCT1000 set-top terminals.

To control another device, look for the list of manufacturers' three-digit codes for the device type in the Device Codes section. Then perform the following steps:

- 1 On the remote control, press and hold the appropriate mode key until the four mode keys flash twice. The mode key continues to flash.
- 2 Enter the three-digit code.

After you press the first digit, the mode key should light and stay on. After you press the last digit, the mode key should flash three times and turn off.

If the mode key does code is invalid for this another device code.

- 3 Point the remote contribution device turns on or off, If you have tried all the device does not respolater in this guide.
- 4 Write the codes below Set-top device code TV device code VCR device code
- 5 Note that in the TV an FF keys control your V down REC and press P

Programming for

You can program the AU a second remote-control receiver, or a digital audi

- 1 Look up the device manote the code.
- 2 Press and hold AUX for mode keys flash twice
- 3 On the remote control the device (vcR for a v and CABLE for a cable
- 4 Enter the three-digit or digit, the AUX key shou digit, the AUX key shou

If the AUX key does no device code is invalid with another device co

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Find the codes for device in the Device

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E, TV, AND VCR

e General Instrument

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opriate mode key until continues to flash.

uld light and stay on.

If the mode key does not flash three times before turning off, the code is invalid for this device type. Repeat the procedure with another device code.

3 Point the remote control at the device and press POWER. If the device turns on or off, you have finished programming.

If you have tried all the codes listed for the manufacturer and the device does not respond, refer to Finding the Correct Device Code later in this guide.

4	vvrite the codes below	W:	
	Set-top device code		
	TV device code		

VCR device code

5 Note that in the TV and VCR modes, the PAUSE, PLAY, REW, REC, and FF keys control your VCR. To record a program, you must hold down REC and press PLAY. This prevents accidental recording.

PROGRAMMING FOR AN AUXILIARY DEVICE

You can program the AUX mode to control an auxiliary device such as a second remote-controlled TV or VCR, a General Instrument satellite receiver, or a digital audio tuner.

- 1 Look up the device manufacturer in the Device Codes section and note the code.
- 2 Press and hold AUX for approximately three seconds until the four mode keys flash twice. The AUX key continues to flash.
- 3 On the remote control, press and hold the appropriate mode key for the device (vcR for a videocassette recorder, TV for a television, and CABLE for a cable device) until the four mode keys flash twice.
- **4** Enter the three-digit code for your VCR. After you press the first digit, the AUX key should light and stay on. After you press the last digit, the AUX key should flash three times and turn off.

If the AUX key does not flash three times before turning off, the device code is invalid for this device type. Repeat the procedure with another device code.

5 Point the remote control at the device to be controlled and press POWER. If the device turns on or off, you have finished programming.

If you have tried all the codes listed for the manufacturer and the device does not respond, refer to Finding the Correct Device Code later in this guide.

6	Write the device type	e and code	below:
	Device Type _		
	AUX device code		

PROGRAMMING VOLUME CONTROL

You can program your XRC 200 to control the volume through the TV while in any other mode. The TV must permit remote volume control.

For example, you can control volume through the TV while in Cable mode. In VCR mode, the volume control is always set through the TV.

This procedure does not affect any device codes you set previously.

To control the volume through the TV while in Cable mode:

- 1 Press and hold CABLE for approximately three seconds until the four mode keys flash twice. The CABLE key will continue to flash.
- 2 Press TV. The CABLE key will flash three times and turn off. You now control the volume through the TV whenever you change the volume level in CABLE mode.

Master Power Control

You can program your XRC 200 to turn on and off all of your remote-controlled devices (AUX, VCR, CABLE, or TV) when you press POWER. All devices must be in direct line of sight to ensure proper operation.

Perform the following steps to enable or disable power control for each device:

1 Make sure all devices to be controlled are turned on.

- 2 Press any mode key (AUX, CABLE, TV, or VCR) for approximate seconds until all four mode keys flash twice. The you press will continue to flash.
- 3 Press POWER twice. The mode key will flash three tim

FINDING THE CORRECT DEVICE CODE

Manufacturers often put their brand name on devices m If you have tried all of the manufacturer's device codes guide but the device still does not respond, you can use to find and identify the appropriate device code.

SCANNING FOR A DEVICE CODE

Perform the following steps to scan for a code that oper device:

- 1 Turn on the device.
- 2 Press and hold a mode key for approximately three s the four mode keys flash twice. The selected mode key continue to flash.
- 3 Press POWER. The mode key will stop flashing and rei
- 4 Point the remote control at the device.
- 5 Press and release the Cursor Up key repeatedly and time you press the key, the remote sends the power-using a different device code. When the device turns is programmed with a code that controls the device.
- If you press the Cursor Up key after the device has to press the Cursor Down key to return to the previous of
- 6 Test whether other functions operate using the remot primary function does not work, continue to press the key to find another code that turns off the device. The functions again.
- 7 When you are satisfied that all primary functions are select to lock in the code.

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ress any mode key (AUX, CABLE, TV, or VCR) for approximately ree seconds until all four mode keys flash twice. The mode key bu press will continue to flash.

ress POWER twice. The mode key will flash three times and turn off.

DING THE CORRECT DEVICE CODE

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ress and hold a mode key for approximately three seconds until e four mode keys flash twice. The selected mode key will ontinue to flash.

ress POWER. The mode key will stop flashing and remain on.

oint the remote control at the device.

ress and release the Cursor Up key repeatedly and slowly. Each ne you press the key, the remote sends the power-off command sing a different device code. When the device turns off, the remote programmed with a code that controls the device.

you press the Cursor Up key after the device has turned off, ess the Cursor Down key to return to the previous device code.

3st whether other functions operate using the remote control. If a imary function does not work, continue to press the Cursor Up 3y to find another code that turns off the device. Then test the nctions again.

hen you are satisfied that all primary functions are working, press :LECT to lock in the code.

RECALLING A DEVICE CODE

Perform the following steps to read the code currently set for a device. This is useful for retrieving a device code that was set using the scanning method described previously.

- 1 Press any mode key until the four mode keys flash twice. The selected mode key will continue to flash.
- 2 Press HELP. The mode key flashes each of the three digits in the code. A pause separates each digit. For example, three flashes represent the number 3. Rapid flashing represents 0.
- 3 Count and record the sequence of flashes to determine the three-digit code.

DEVICE CODES

CABLE DEVICE	CODE
Digital Music Express	006
GI CFT2200/DCT1000	000
GI CFT2000 Series	001
GI DCR2000/3000	007
GI DCR4000	005
GI Sat Mode 0	009
GI Sat Mode 1	010
GI Sat Mode 2	011
GI Sat Mode 3	012
GI STARCOM Series	002
GI/TOCOM	003, 004
Primestar Mode 0	009
TV BRAND	DEVICE CODE
TV BRAND Akai	DEVICE CODE 032, 070
Akai	032, 070
Akai Alba	032, 070 113
Akai Alba A-Mark	032, 070 113 120
Akai Alba A-Mark Amstrad	032, 070 113 120 033
Akai Alba A-Mark Amstrad Anam	032, 070 113 120 033 041, 120, 121
Akai Alba A-Mark Amstrad Anam Anam-National	032, 070 113 120 033 041, 120, 121 009, 021
Akai Alba A-Mark Amstrad Anam Anam-National AOC	032, 070 113 120 033 041, 120, 121 009, 021 005, 006, 019, 020, 195 120 120
Akai Alba A-Mark Amstrad Anam Anam-National AOC Archer Audiovox Bauer	032, 070 113 120 033 041, 120, 121 009, 021 005, 006, 019, 020, 195 120
Akai Alba A-Mark Amstrad Anam Anam-National AOC Archer Audiovox	032, 070 113 120 033 041, 120, 121 009, 021 005, 006, 019, 020, 195 120 120

Candle Capehart Capehart	006, 022, 023, 025, 195 019 195
Circuit City	195
Citizen	006, 016, 022, 023, 024, 025, 026
Colortyme	195
Concerto	023
Contec	027, 028, 041, 091
Craig	021, 041, 194
Crown	026
Curtis Mathes	006, 203, 006, 016
CXC	041
Daewoo	005, 024, 026, 029, 030, 031, 032, 219
Daytron	026, 195
Dixi Dumont	032, 088, 120 195
Electrohome	026, 195, 209, 213
Elta	032
Emerson	026, 027, 028, 033, 034, 035, 037, 038, 039, 040, 041,
	122, 195, 220, 999
Envision	006
EON (See NEC)	
Etron	032
Fisher	042, 090
Formenti	111
Fortress	105
Fujitsu	034
FUJITSU Funai	194 034, 041, 194
Futuretech	041
Futuretech	194
GE	003, 008, 009, 015, 040, 043, 044, 130, 190, 195
Genexxa	113
Goldstar	005, 023, 026, 045, 046, 088, 195
Gradiente	211
Granada	195
Grand	195
Grundig	047
Hallmark	195
Hinari	034
Hitachi	023, 026, 048, 049, 050, 051, 052, 053, 054, 055, 126,
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Infinity JBL	026 026
JBL Jensen	056
CONSCIT	

JVC Kenwood	057, 058, 059, 060 006
Kloss	022, 110
KTV	026, 039, 040, 041
Kwasho	061
	001
Linitron (See Sharp)	195
Lloyd Lloytron	026
Loewe	088 018
Logik	023
Luxman LXI	
 : :	003, 026, 090, 095, 117, 125, 023
Magnavox	006, 020, 024, 025, 026, 027, 068, 069, 110, 210
Marantz	006, 026, 088
Matsui	032, 109
Megatron	195
Memorex	018, 032, 090, 195
MGA	004, 005, 006, 071, 195
Mitsubishi	004, 005, 070, 071, 072, 123, 195, 207
MTC	005, 006, 016, 023, 031, 195
NAD	002, 117, 195
National	197
NEC	005, 006, 007, 017, 023, 127
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Nordmende	051, 217
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Optonica	105, 107
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Panasonic	008, 009, 010, 011, 012, 026, 074, 075, 197, 200, 200
PEC (See Toshiba)	
Penney	003, 005, 006, 014, 016, 026, 043, 096
Performance (See Sony)	
Philco	005, 006, 024, 025, 068, 110
Philips	026, 088
Pioneer	002, 048, 051, 076
Portland	005, 026
Prima (See Curtis Mathes)	
Proton	013, 019, 026, 124, 195
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RCA	003, 005, 014, 015, 048, 079, 080, 081, 082, 083, 084, 085, 086, 087, 125, 133, 134
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Saba	051
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Samsung	005, 006, 016, 023, 026, 032, 088, 112, 195, 204, 221
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SBR	088
Schneider	088
Scott	026, 034, 037, 041, 093
Sears	003, 023, 034, 042, 089, 090, 094, 095, 096, 097, 099,
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Sharp	026, 091, 106, 107, 108, 128, 129, 105
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Fuji Funai Garrard

Grundig Harley Davidson Harman/Kardon Harwood Headquarter HI-Q

Hitachi Jensen JVC Kenwood KLH

Kodak Lloyd Lloyd's Logik LXI

Magnavox Marta Matsushita MEI Memorex MGA Minolta Mitsubishi

Motorola

Multitech NEC Nikko

Olympus Optimus Optonica Orion Panasonic

Panasonic Penney Pentax Philco Philips

GE GoldStar Go Video Gradiente

Fuji Funai Garrard GE GoldStar Go Video Gradiente Grundig Harley Davidson Harman/Kardon Harwood Headquarter HI-Q Hitachi Jensen JVC Kenwood KLH Kodak Lloyd Lloyd's Logik LXI Magnavox Marta Matsushita MEI Memorex MGA Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Optonica Orion	001, 054 149 149 028, 051, 054 030, 200, 193, 202 057, 058, 120 175 176 088 030 011, 089 081 082 032, 037, 060, 177, 040, 041, 118 060 060, 061, 062, 063, 064, 179 030, 060, 062, 179 089 054, 200 088 160 089 200 027, 033, 054, 065, 144, 180 200 054 054 054 054 053, 054, 081, 082, 083, 085, 088, 200, 066 067 037, 177 062, 067, 181, 070, 194 054, 085 089 030, 032, 060, 062, 197, 031 200 054, 080, 128 085, 200, 205 254 129	Pilot Pioneer Portland Protec Pulsar Quarter Quartz Quasar Radio Shack Radix Randex RCA Realistic Ricoh Runco Samsung Sanky Sansui Sanyo Scott Sears Sharp Shintom Shogun Singer Sony STS Sylvania Symphonic Tatung Teac Technics Teknika TMK Toshiba Totevision Vector Vector Research Video Concepts
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