XRC 110
UNIVERSAL
REMOTE
CONTROL

GETTING STARTED

Congratulations! Your XRC 110 universal remote control and StarSight™ bring new convenience to television viewing. By pressing a few keys you can see what's on TV, select the program you want, set-up to record programs on your VCR, and much more.

The XRC 110 also eliminates the frustration of having to use several remote controls. The XRC 110 has been designed to control most TV sets and VCRs in today's consumer market, as well as your cable terminal.

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

- The XRC 110 allows you to control multiple devices. The only time you will need to change modes is when you want to switch control to a different device.

  For example, say you are using the remote to control your cable terminal and now you want to change the channel on your VCR. First press VCR and then press the desired channel number key(s). To return to controlling your cable terminal, press the CABLE key and then the desired function key. The remote control will stay in the cable mode until you press another mode key.

- The AUX mode can be used for a second TV or VCR, or for a digital audio tuner.

- The four mode keys (AUX, VCR, CABLE, and TV) also serve as indicator lights which show which device is being controlled and help guide you through programming the remote. Refer to the PROGRAMMING YOUR XRC 110 section of this guide for details.

- You can program the XRC 110 to control volume through your cable terminal, TV, or VCR without being in that mode. For example, you can control volume through your TV even though the remote is in the cable mode. You must program the remote in order to use the volume control feature. Refer to PROGRAMMING VOLUME CONTROL.

- The XRC 110 also provides control of stand-alone digital audio tuners as well as services such as Music Choice™ (MC) and Digital Music Express™ (DMX).
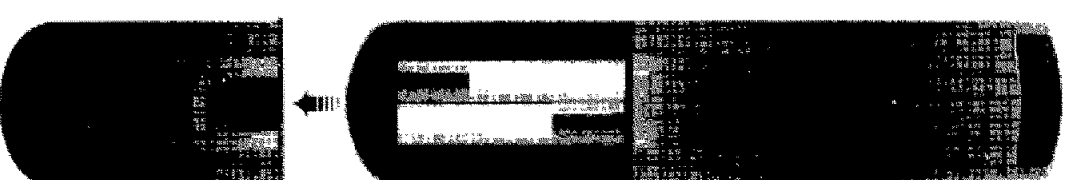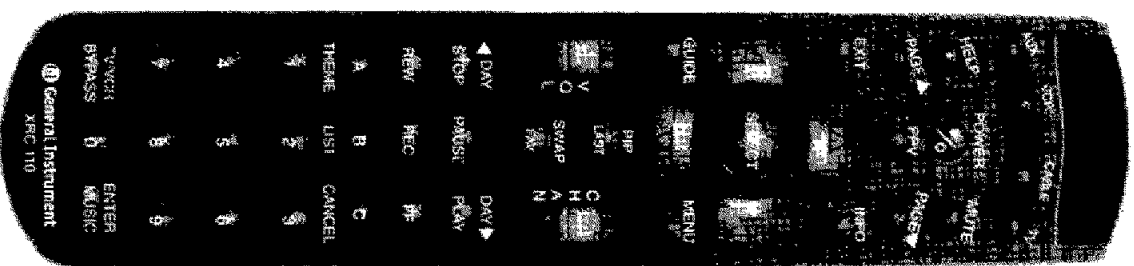
BATTERY REPLACEMENT

If the batteries in your remote control need to be replaced, use two fresh 1.5 volt, AA batteries.

To install or replace the batteries, slide the battery door on the back of the remote open and insert the batteries in the direction indicated. Then slide the battery door closed until it snaps into place.

Point the remote at your cable terminal and press CABLE then POWER to turn the terminal on. If the terminal does not turn on, remove the batteries, check their orientation, or replace them as needed.
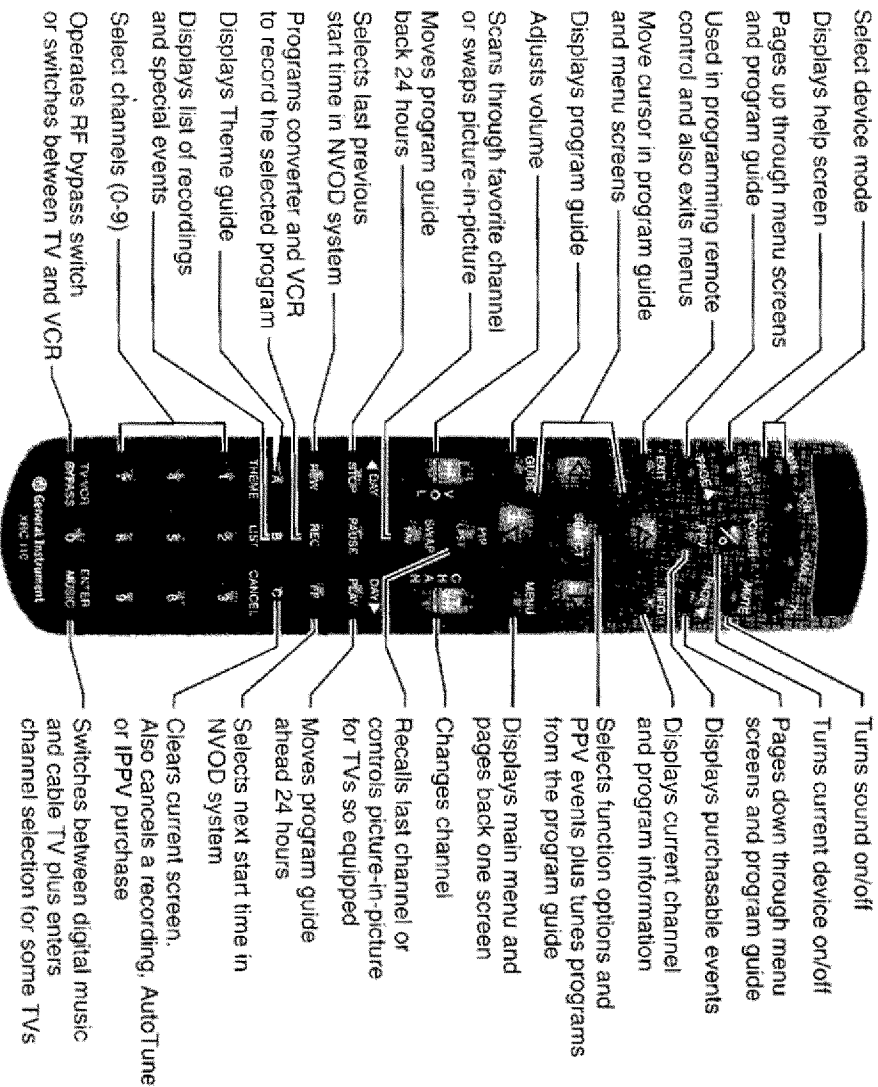
Once you have programmed your remote control, you *will not* need to reprogram it after you take the batteries out to replace them.

THE KEYBOARD

The illustration below identifies the keys on your remote control; see your cable terminal and digital audio user guides for further instructions. Note that in the TV and VCR modes the keys control your VCR.

To record a program you must press the REC key twice. This feature was added to avoid accidental recording.

Select device mode

Displays help screen

Pages up through menu screens and program guide

Used in programming remote control and also exits menus

Move cursor in program guide and menu screens

Displays program guide

Adjusts volume

Scans through favorite channel or swaps picture-in-picture

Moves program guide back 24 hours

Selects last previous start time in NVOD system

Programs converter and VCR to record the selected program

Displays Theme guide

Displays list of recordings and special events

Select channels (0-9)

Operates RF bypass switch or switches between TV and VCR

Turns sound on/off

Turns current device on/off

Pages down through menu screens and program guide

Displays purchasable events

Displays current channel and program information

Selects function options and PPV events plus tunes programs from the program guide

Displays main menu and pages back one screen

Moves program guide ahead 24 hours

Selects next start time in NVOD system

Recalls last channel or controls picture-in-picture for TVs so equipped

Clears current screen. Also cancels a recording, AutoTune or IPPV purchase

Changes channel

Switches between digital music and cable TV plus enters channel selection for some TVs

PROGRAMMING YOUR
XRC 110

You are now ready to program the XRC 110 remote control. Find the code for your cable terminal, TV set, VCR, and the device you wish to assign to the AUX mode, in the DEVICE CODES section at the end of this guide.

All codes are three-digit numbers. As you program for each mode, write down the correct codes in the spaces provided, for future use.

Many devices have more than one code listed. For these cases, start with the first code listed. For example, if you have a Sony TV, the first code is 000.

Please note after entering a device code, the mode indicator should flash twice. If all four mode indicators show one long flash, you have entered an invalid code. Try again.

Also note that if it takes you longer than 10 seconds to press the next key in the programming sequence, the whole sequence will be erased and you will have to start over. This feature was added to prevent you from accidentally reprogramming the remote during regular viewing.

PROGRAMMING FOR YOUR TERMINAL

The XRC 110 is already programmed to control the General Instrument CFT2200 and DCT 1000 cable terminals. If you have either of those terminals you can move on to PROGRAMMING FOR YOUR TV.

If you have some other cable terminal, look up the manufacturer in the DEVICE CODES section and note the three-digit code.

On the remote control, press and hold CABLE until the four mode indicators flash twice. Now enter the three-digit code. If you have indicator should flash twice; if it doesn't, press and hold CABLE as described above and try again. For example, if you have a General Instrument cable terminal (other than the CFT2200 or DCT 1000), press and hold CABLE until the four mode indicators flash twice, then press 0—0—3.

After you have entered the code, point the remote at your terminal and press POWER. If your terminal turns on or off, you have finished programming for the terminal.

If, after trying all of the codes listed, the terminal still does not turn on or off, refer to the IF THE DEVICE DOES NOT RESPOND section of this guide.

Cable Terminal Code ___ ___ ___

PROGRAMMING FOR YOUR TV

Look up the manufacturer of your TV in the DEVICE CODES section and note the three-digit code.

On the remote control, press and hold TV until the four mode indicators flash twice. Now enter the three-digit code. The TV indicator should flash twice; if it doesn't, press TV as described above and try again. For example, if you have a Sony TV, press and hold TV until the four mode indicators flash twice, then press 0—0—0.

After you have entered the code, point the remote at your TV and press POWER. If your TV turns on or off, you are finished programming for your TV. Note your TV set code below.

TV Code ___ ___ ___

If, after trying all of the codes listed, the TV still does not turn on or off, refer to the IF THE DEVICE DOES NOT RESPOND section of this guide.

PROGRAMMING FOR YOUR VCR

Look up the manufacturer of your VCR in the DEVICE CODES section and note the code.

On the remote control, press and hold VCR until the four mode indicators flash twice. Now enter the three-digit code. The VCR indicator should flash twice; if it doesn't, press VCR as described above and try again. For example, if you have a JVC model, press and hold VCR until the four mode indicators flash twice, then press 0—0—8.

After you have entered the code, point the remote at your VCR and press POWER. If your VCR turns on or off, you have successfully programmed for the VCR. Note your VCR code below.

VCR Code ___ ___ ___

If you have tried all the codes listed for your VCR and it still does not turn on or off, refer to the IF THE DEVICE DOES NOT RESPOND section of this guide.

PROGRAMMING THE AUX MODE

You can program the AUX mode to control another device such as a second TV or VCR, or a digital audio tuner.

Suppose you want to control a second VCR. Look up the manufacturer of your VCR in the DEVICE CODES section and note the code.

On the remote control, press and hold VCR until the four mode indicators flash twice. Now press 9—9—2. Next press and hold AUX until the four mode indicators flash twice. Finally, enter the the three-digit code for your VCR. The AUX indicator should flash twice; if it doesn't, press AUX as described above and try again. For example, if you have a Mitsubishi VCR, press and hold VCR until the four mode indicators flash twice, then press 9—9—2—AUX (hold until the four mode indicators flash twice) —0—4—3.

After you have entered the code, point the remote at your VCR and press POWER. If the VCR turns on or off, you have successfully programmed for the VCR. Note the code below.

AUX Code ___ ___ ___

If you want to control a second TV, the key sequence is similar, except replace the VCR key with the TV key. The sequence is TV (hold until the mode indicators flash twice) —9—9—2 aux (hold until the indicators flash twice) — the device code for your TV.

If you have tried all the codes listed for the device you want to control and it still does not turn on or off, refer to the IF THE DEVICE DOES NOT RESPOND section of this guide.

PROGRAMMING VOLUME CONTROL

You can program the XRC 110 to control volume through your cable terminal, your TV, or your VCR, without being in that mode. You can change your volume control selection at any time without disturbing the codes you programmed.

To program for volume control, first press and hold the mode key of the device in which volume is to be controlled until the four mode indicators flash twice. Next press 9—9—3. For example, if you want to control volume through your TV, press and hold TV until the four mode indicators flash twice, then press 9—9—3.

IF THE DEVICE DOES NOT RESPOND

If the device you want to control does not respond, first try all of the manufacturer codes for the device. However, manufacturers often put their brand name on devices made by others. For these cases, the XRC 110 has a feature which will search the library of codes for you, and find the correct one.

CODE SEARCH

Suppose you can't seem to find the correct code for your TV. To start the search, turn on your TV and aim the remote control directly at it.

Press and hold TV until the four mode indicators blink twice, then press 9—9—1. Now repeatedly press POWER—TV until your TV turns off.

You may need to press POWER—TV a number of times. *Be patient, and go slow, so you don't miss the correct code.*

When the TV turns off, press SELECT to lock in the code. The TV indicator will flash twice to indicate that the code is accepted. The TV set code is now programmed into the remote control.

To find your cable terminal, VCR, or AUX code, use the same procedure but substitute the CABLE, VCR or AUX key for the TV key.

If these procedures are successful, you will be able to control the devices you programmed; but you still have not discovered the device codes. If you want to record these codes for future reference, use the "blink back" feature described next.

CODE SEARCH USING "BLINK BACK"

To use "blink back" to find your programmed TV code, press and hold TV until the four mode indicators flash twice, then press 9—9—0. Now press 1 and count the number of times the TV indicator blinks. This number is the first digit of your TV code. If the indicator does not blink after any step of this procedure, the digit is 0.

Next, press the 2 key. The TV indicator will blink again. Count the number of blinks to find the second digit of the code. Finally, press 3. The number of blinks is the third and final digit of the code.

You can also find the programmed cable terminal, VCR, and AUX codes using the same procedure. But the beginning sequence is CABLE (hold for two blinks)—9—9—0, VCR (hold for two blinks)—9—9—0, or AUX (hold for two blinks)—9—9—0. Then use the 1, 2, and 3 keys as in the TV code search above.

DEVICE CODES

CODES FOR CABLE TERMINALS

FOR TELEVISION VIEWING

ABC	003, 011, 013, 014, 047
General Instrument	003, 011, 012, 014, 047, 276, 476, 690, 691,
Hitachi	011
Jerrold	003, 011, 012, 014, 047, 276, 476, 690, 691
Rembrandt	011
Signature	011
Starcom	003, 047
Tocom	012, 013
United Cable	003

FOR DIGITAL AUDIO LISTENING

General Instrument	459, 520
Jerrold	459, 520
Starcom	459
DMX (Scientific Atlanta)	460

CODES FOR TELEVISION

A-Mark	003
Abex	032
Admiral	093
Adventura	046
Aiko	092
Akai	030, 098
Alaron	216
Alleron	179, 183
Ambassador	177
Anam	004, 009, 068, 180
Anam National	055, 161
AOC	003, 019, 030, 137, 185
Archer	003
Astro Text	379
Audiosonic	109
Audiovox	003, 180
Belcor	019
Bell & Howell	016, 154
Bradford	180
Brandt	109
Brockwood	019
Broksonic	003
Candle	030, 046, 056, 186
Carver	054
CCE	329
Celebrity	000
Citizen	030, 039, 046, 056, 060, 092, 186, 280
Clairtone	185
Concerto	056
Contec	157, 158, 180, 185
Craig	161, 180
Crown	039, 180
Curtis Mathes	030, 039, 060, 154, 415
CXC	180
Daewoo	019, 039, 066, 067, 091, 092, 451
Daytron	019
Dumont	017, 019
Dynatech	049
Electroband	000, 185
Electrohome	381, 389, 409
Emerson	019, 038, 039, 154, 158, 177, 178, 179, 180, 182, 183, 185, 236, 280, 282, 463
Envision	030
Ferguson	109
Fisher	154, 159
Fujitsu	179
Funai	179, 180
Futuretech	180
GE	021, 027, 029. 047, 051, 055, 135, 138, 174, 178, 251, 279, 282
GEC	437
Gibralter	017, 019, 030
GoldStar	001, 002, 019, 030, 032, 039, 056, 106, 109, 178, 409
Gradiente	392
Grundig	070

Grunpy	179, 180	Penney	002, 003, 018, 019, 021, 027, 030, 032. 039, 047, 051.
Hallmark	178		060, 110, 135, 138, 149, 156, 178. 309
Harvard	068, 180	Philco	019, 030, 054, 096, 302
Hitachi	032, 038, 056, 109, 145, 151, 173, 227, 279, 409, 413	Philips	054
Ima	180	Pilot	019, 030. 039
Infinity	054	Pioneer	038, 109, 166
Janeil	046	Portland	019, 039. 092
JBL	054	Priceclub	060
JCB	000	Prism	051
Jensen	050	Proscan	047
JVC	036, 053, 069, 160, 169, 182	Proton	003, 031, 178, 466
Kamp	216	Pulsar	017
Kawasho	158, 216, 308	Pulser	019
Kenwood	019. 030	Quasar	051, 055, 219, 250
Kloss	024. 046	Radio Shack	019, 032, 039, 165, 180, 409
KMC	106	RCA	018, 019, 029, 038, 047, 090, 135, 174, 254, 278
KTV	030, 039, 180, 183, 185, 280	Realistic	019, 030, 032, 039, 056, 154, 165, 178, 180
Logik	016	Rhapsody	183, 185, 216
Luxman	056	Runco	017, 030, 251
LXI	047, 054, 148, 154, 156, 178	Saba	109
M-Electronic	109	Sampo	030, 032, 039, 100. 110
Magnavox	030, 036, 054, 096, 186, 230, 386	Samsung	019, 030, 032, 039, 056, 060, 110, 178, 329, 408, 427,
Majestic	015, 016		482
Marantz	030. 054	Samsux	039
Megatron	003, 145, 178	Sanyo	107, 146, 154, 159, 232, 484
MEI	185	Scimitsu	019
Memorex	016, 056, 106, 150, 154, 178	Scotch	178
MGA	019, 030, 150, 155, 178	Scott	019, 178, 179, 180, 236, 309
Midland	017, 032, 039, 047, 051, 135	Sears	015, 047, 054, 056, 146, 148, 149, 154, 156, 159, 168,
Minutz	021		171, 178, 179, 281
Mitsubishi	014, 019, 098, 150, 155, 178, 241, 331, 358	Sharp	039, 093, 157, 165, 220, 281, 386, 491
Motorola	055, 093	Shogun	019
MTC	019, 030, 049, 056, 060, 091, 185	Signature	016
Multitech	049, 180	Simpson	186, 187
NAD	156, 166, 178	Sony	000, 011, 080, 111, 353
NEC	019, 030, 036. 056, 434	Soundesign	178, 179, 180, 186
Nikko	030, 092, 178	Spectricon	003, 137
Noblex	430	Squareview	171
Nordmende	109	SSS	019, 180
NTC	092	Starlite	180
Onwa	180	Supre-Macy	046
Optimus	154, 166	Supreme	000
Optonica	093, 165	Sylvania	030, 054, 096, 381
Orion	236	Symphonic	171
Panasonic	051, 054, 055, 162, 226, 250. 338, 375	Tandy	093

Tatung	003, 049, 055, 396	Citizen	037, 278
Technics	051, 250	Colt	072
Techwood	051, 056	Craig	037, 047, 072, 240, 271
Teknika	016, 019, 039, 054, 056, 060, 092, 150, 175, 179, 180,	Curtis Mathes	035, 041, 060
	186, 322	Cybernex	051, 240
Telefunken	074, 109	Daewoo	017, 020, 045, 087, 278
Tera	031	Daytron	020
Thomson	109, 209	Dynatech	000
TMK	056, 177, 178	Eiectrohome	037
Toshiba	036, 060, 149, 154, 156	Electrophonic	037
Tosonic	185	Emerex	032
Totevision	039	Emerson	000, 002, 036, 037, 043, 068, 088, 121, 184, 208, 209,
Trical	157		211, 212, 278, 294, 295, 361, 479
Ultra	391	Fisher	047, 054
Universal	027	Fuji	033, 035
Vector Research	030	Funai	000, 325
Victor	053	Garrard	000, 325
Video Concepts	098	GE	035, 060, 202
Vidikron	054, 242	Go Video	232, 279, 350
Vidtech	019, 178	GoldStar	037, 038, 471, 480
Viking	046	Gradiente	000, 408
Wards	016, 019, 020, 021, 027, 028, 029, 030, 054, 056, 080,	Grundig	195
	096, 111, 165, 174, 178, 179, 202	Harley Davidson	000
Yamaha	019, 030	Harman/Kardon	038
Zenith	016, 017	Harwood	068, 072
Zonda	003	Headquarter	046
		HI-Q	047

CODES FOR VCRs

		Hitachi	041, 042, 082, 105, 235, 292, 396
		Jensen	041
Action	317	JVC	008, 041, 067, 206, 207, 384
Advantz	356	Kenwood	038, 041, 067, 384
Adventura	000	KLH	072
Aiko	278	Kodak	035, 037
Aiwa	000, 406, 436, 468	Lloyd	000
Akai	041, 049, 156, 242	Lloyd's	208
American High	035	Logik	072
Asha	240	LXI	037
Audiovox	037	Magnavox	035, 039, 081, 103, 110, 149
Beaumark	240	Magnin	240
Broksonic	121, 184, 211, 295, 361	Marantz	035, 081
Calix	037	Marta	037
Canon	035, 102	Matsushita	035
Capehart	020	MEI	035
Carver	081	Memorex	000, 035, 037, 039, 046, 047, 048, 240, 268, 299
CCE	072, 278	MGA	043

MGN Technology	240	Sunpak	253
Minolta	042, 105	Sylvania	000, 035, 043, 081, 103, 110
Mitsubishi	043, 067, 173, 242, 443	Symphonic	000, 325
Motorola	035, 048	Tatung	041
MTC	000, 240	Teac	000, 041
Multitech	000, 072	Technics	035, 162, 246
NEC	038, 040, 041, 050, 067, 082	Teknika	000, 035, 037, 052
Nikko	037	TMK	036, 208, 240
Noblex	240	Toshiba	043, 045, 057, 210, 212, 366
Olympus	035, 226	Totevision	037, 240
Optimus	037, 048, 432	Unitech	240
Optonica	062	Vector	045
Orion	479	Vector Research	038, 040
Panasonic	035, 102, 162, 225, 226, 227, 246, 254, 378, 454	Video Concepts	040, 045, 221
Penney	035, 037, 038, 040, 042, 054, 240	Videosonic	240
Pentax	042, 105	Wards	000, 035, 042, 047, 048, 062, 072, 149, 212, 240
Philco	035	XR-1000	000, 035, 072
Philips	035, 062, 081, 110, 403	Yamaha	038
Pilot	037	Zenith	033, 034, 039
Pioneer	067		
Portland	020		
Protec	072		
Pulsar	039, 051		
Quarter	046		
Quartz	046, 155		
Quasar	035		
Radio Shack	000, 037, 325		
Radix	037		
Randex	037		
RCA	042, 060, 105, 149, 202, 277, 453		
Realistic	000, 035, 037, 046, 047, 048, 062, 240		
Ricoh	034, 253		
Runco	039		
Samsung	045, 051, 240		
Sanky	039, 048		
Sansui	041, 067, 082, 271		
Sanyo	046, 047, 240, 268, 372		
Scott	043, 045, 121, 184, 210, 211, 212		
Sears	035, 037, 042, 046, 047, 054, 057, 105		
Sharp	048, 062		
Shintom	072		
Shogun	051, 240		
Singer	072		
Sony	022, 032, 033, 034, 035, 253, 275		
STS	042		