



CT-32S21



Read these instructions completely before operating. Contents subject to change without notice or obligation.

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## **Safety Instructions**





The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

**Note To CATV System Installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### **Safety Instructions For Television Receivers**

- 1. Read and apply the operating instructions provided with your television receiver.
- 2. Read all of the instructions given here and retain them for later use.
- 3. Unplug this television receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.
- 5. Do not use this television receiver near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 6. Do not place this television receiver on an unstable cart, stand, or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- 7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface. This television receiver should never be placed near or over a radiator or heat register. This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
- 8. Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company. For television receivers designed to operate from battery power, refer to the operating instructions.
- 9. This television receiver is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
  EXAMPLE OF ANTENNA GROUNDING AS PER (NEC) NATIONAL ELECTRICAL CODE
- Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.
- 11. Follow all warnings and instructions marked on the television receiver.
- 12. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 13. Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television receiver.



- 14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead—in wire to an antenna discharge unit, size of grounding conductors, location of antenna–discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
- 15. For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power–line surges.
- 16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the television receiver.
  - c. If the television receiver has been exposed to rain or water.
  - d. If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normat operation.
  - e. If the television receiver has been dropped or the cabinet has been damaged.
  - f. When the television receiver exhibits a distinct change in performance this indicates a need for service.
- 18. Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20. Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
- 21. WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- 22. CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- **NOTE:** This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

#### Important Information Regarding Use of Video Games, Computers, DSS or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

- A. Reduce the brightness/contrast setting to a minimum viewing level.
- B. Do not display the fixed image for extended periods of time.
- C. Turn the power off when not in actual use.
- **NOTE:** The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

### **Specifications**

Power Source	120V AC, 60Hz
Channel Capability	181 channels (See chart) VHF 2~13, UHF 14~69, Cable 125 channels
Video Input Jacks (2):	1V p-p, 75 ohm, phono jack type
Audio Input Jacks (2):	500mV rms 47K ohm
To Audio AMP Jacks:	0~2.0V rms 4.7K ohm
S-VHS input Jack	SVideo (y-c) connector (CT-32S21 ONLY)
Stereo Sound	
<b>Closed Caption Display</b>	
Picture In Picture	1 Tuner

#### **Channel Capability Chart**

BAND	CHANNELS
VHF	12
UHF	56
CABLE (Mid-Band)	15
CABLE (Super Band)	14
CABLE (Hyper Band)	28
CABLE (Ultra Band)	56
TOTAL CHANNELS	181

Specifications are subject to change without notice or obligation.

### Introduction

### **Congratulations on Your New Purchase**

Your new video component features an all solid state chassis which is designed to give you many years of enjoyment. It was thoroughly tested and adjusted at the factory for best performance.

In order for you to take full advantage of your new video component, please read and follow the installation and operating instructions supplied with this product.

#### **Customer's Record**

The model and serial number of this product may be found on its back cover. You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_

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## Installation

### **Television Location**

This television is intended to be used with an optional stand or entertainment center. Consult your dealer for available options.

Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

Use of some types of fluorescent lighting may reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc.) nearby.

### **Optional External Equipment Connections**

The Video/Audio connections between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply house.

Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

### AC Power Supply Cord

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

### **Remote Control Battery Installation**

Batteries: Use two "AA" batteries.

- 1. Remove the battery compartment cover on back of the remote.
- 2. Install the batteries in the battery compartment. (Polarity (+) or (-) must be correct.)
- 3. Reattach the battery cover.

### Helpful Hints:

For frequent Remote Control users, replace old batteries with Alkaline batteries for longer life.

### **Precaution on Battery Use**

Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control Transmitter.

### **Observe the Following Precautions:**

- 1. Batteries must be replaced as a pair.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (Example: "Zinc Carbon" with "Alkaline").
- Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when Remote Control reacts sporadically or stops operating the Receiver.

### Helpful Hints:

Whenever you remove the batteries to replace them, you may need to reset the Remote Control Infrared Codes. We recommend that you initially record the codes in the Infrared Remote Codes for Specific Components section, prior to setting up the remote.



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### Installation (cont.) Antenna/Cable Connections

Antenna Connection – For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended. Antenna Mode must be set to TV. (Refer to Antenna Mode section.)

**Incoming Cable from Home Antenna** 





**Cable Connection** – For reception of cable channels, connect the cable supplied by your local cable company. **Antenna Mode must be set to CABLE.** (Refer to Antenna Mode section.)

### Incoming Cable from Cable Company



**NOTE:** Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for compatibility requirements.

### **Other Video Equipment**

VCRs, Video Disc Players, Computers, TV games, and DSS equipment can also be connected to the antenna input connection.

## **Care and Cleaning**

### Picture Tube (Turn set off)

Use a mild soap solution or window cleaner and a clean cloth. DO NOT USE ABRASIVE CLEANERS. Avoid excessive moisture and wipe dry.

### **Plastic Cabinets**

Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth. Avoid excessive moisture. Do not use benzene, thinners or other petroleum based cleaners.

### Wood Cabinets

When dusting or polishing the cabinet, use a clean soft cloth and stroke straight with the grain. An occasional coat of furniture polish will help preserve the finish. Do not use benzene, thinners or other petroleum based cleaners. Do not place objects made of plastic or rubber directly on top of the cabinet. A chemical reaction could result causing permanent marring of the finish.

#### **Remote Control Transmitter**

Do not use benzene, thinners or other petroleum based cleaners to clean the Remote Control Transmitter. To clean, wipe with a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth.

## **Optional Equipment Connection and Operation**

### To Audio AMP Connection (Stereo)

Connect to an external audio amp auxiliary input for monitoring sound through a stereo system.



Adjustment - When an audio amp is connected to "TO AUDIO AMP" terminals:

- 1. Select TV SPEAKERS "ON " Mode. (Refer to the Audio Menu TV Speakers section.)
- 2. Set volume of audio amp to near minimum.
- 3. Adjust volume of TV to desired listening level.
- 4. Adjust volume of audio amp to match the level of TV.
- 5. Select TV SPEAKERS "OFF&VAO " Mode. (Refer to the Audio Menu TV Speakers section.)
- 6. Volume and mute can now be controlled by the TV Remote Control.
- **NOTE:** When Selecting TV SPEAKERS "OFF&FAO" Mode, the TV sound output is always at a constant level and cannot be changed (Refer to the Audio Menu TV Speakers section).

### **Audio/Video Input Connection**



#### Operation

- Connect optional equipment as shown to INPUT 1 or 2 terminals. If S-Video is to be used, connect S-Video (YC) connector to S-Video terminal and connect audio cables to L & R Audio INPUT 1 terminals. (S-Video Connection is only used for CT-32S21.)
- 2. Select the desired Video mode by pressing the TV/VIDEO button.
- 3. Operate optional equipment (VCR-VDP) as instructed in Optional Equipment manual.

#### NOTE:

- You must select the same VIDEO Mode that the equipment is connected to.
- Connection of optional S–VIDEO jack automatically disconnects the Normal Video Input 1 jack. (S–Video Connection is only used for CT–32S21.)

### Optional Equipment Connection and Operation (cont.) VCR and Cable Box Connection



#### Connection

- 1. Program Remote Control for VCR and Cable Box.
- 2. Connect incoming Cable to optional cable box ant input.
- 3. Connect a cable from Cable box ant output to VCR ant input.
- 4. Connect a cable from VCR ant output to TV ant input.
- 5. Connect RCA cables from VCR Audio/Video output to TV Audio/Video input, 1 or 2. Select the same VIDEO Mode that the equipment is connected to.

### **Picture in Picture Operation with VCR and Cable Box**

This Receiver has the "PICTURE IN PICTURE" feature. For the proper operation of this feature a second video source is required (such as a VCR). We recommend that you make your antenna and External Video connection as shown below when a second video source is available.



#### Operation

- 1. Press the PIP button to display the PIP frame.
- 2. Press the TV/VIDEO button to select the desired video mode. Select the same VIDEO Mode that the equipment is connected to.
- 3. Turn VCR ON. NOTE: PIP video and Main video source will be the same.
- 4. Press PLAY button for VCR. NOTE: PIP video and Main video source will be from VCR.
- 5. Press TV/VCR button to display TV video source for Main picture.

### **Optional Equipment Connection and Operation (cont.)**

### Picture in Picture Operation Using VCR as Second Tuner

This Television has the "PICTURE IN PICTURE" feature. For the proper operation of this feature a second video source is required (such as a VCR). We recommend that you make your antenna and External Video connection as shown below when a second video source is available.



To ANT Terminal

#### Operation

- 1. Press the PIP button to display the PIP frame.
- 2. Press the TV/VIDEO button to select the desired video mode. Select the same VIDEO Mode that the equipment is connected to.
- 3. Turn VCR ON. NOTE: You may lose TV video source for Main Picture.
- 4. Press TV/VCR button to display TV video source for Main Picture.
- 5. Use the VCR Tuner to select channels in the PIP frame.

### Helpful Hints:

The PIP will operate using Audio/Video input terminals 1 or 2. Use the TV/VIDEO button (when the PIP frame is displayed) to select proper mode. The PIP feature will operate using S-Video input terminal 1 (For CT-32S21 only).

le PIP feature will operate using S-video input terminal 1 ( For C1-32S21 only

## **Location of Controls Television**



Remote Control Sensor

(1) Power Button – Press to turn ON or OFF.

**Volume Buttons** – Press to adjust Sound Level. Press to adjust Audio Menus, Video Menus and select operating features when menus are displayed.

3 Channel Buttons – Press to select programmed channels. Press to highlight desired features when menus are displayed.

4 Action Button – Press to display Main Menu and access On Screen feature and Adjustment Menus.

(5) **TV/Video Button** – Press to select TV or one of two Video Inputs.

### Location of Controls Remote (for CT-3268S)

### Power Button Press to turn ON or OFF.

#### TV/Video Button /

Press to select TV or one of two Video Inputs, for the Main Picture or the PIP frame (when the PIP frame is displayed).

#### Volume Buttons

Press to adjust TV sound level. Use with Channel buttons to navigate in menus.

#### Keypad Buttons-

Press desired channel number to randomly access any channel.

**R-Tune (Rapid Tune) Button** Press to switch to the previous channel.

VCR Function Buttons Programmable to operate many brands of VCR's.

#### TV/VCR/CABLE Switch This switch is used to select the proper mode when programming Remote Control Infrared codes or operating the TV or external equipment (VCR or Cable box).

#### PIP Move Button

Press to position PIP frame to any corner of the Main Picture (when PIP frame is displayed).

#### PIP Freeze Button

Press to stop action in the Main Picture or PIP frame (when the PIP frame is displayed).



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#### Mute Button

Press to mute sound. A second press resumes sound. Press also to access and delete Closed Caption.

#### **Multi Button**

Programmable to operate up to six Remote Control Function buttons simultaneously.

#### **Channel Buttons**

Press to select channels. Use with Volume buttons to navigate in menus.

#### Action Button

Press to display Main Menu and access or exit On Screen feature and Adjustment Menus.

#### **Recall Button**

Press to display Time, status of Sleep Timer, Channel, Video Mode, Channel Caption (Station Identifier) and Audio Mode.

 Cable Power Button – Programmable to operate selected CATV converter boxes.

#### PIP (Picture In Picture) Button Press to display the PIP frame, press again to remove PIP frame.

#### **PIP Swap Button**

Press to interchange PIP frame with Main Picture (when the PIP frame is displayed).

#### **PIP Size Button**

Press to select size of PIP frame (when the PIP frame is displayed).

### Remote Control Quick Reference Functional Key Chart

(for CT-3268S)

(for C I – 32085)		
KEY	OPERATES	FUNCTION
POWER	т	Turns TV On and Off
MUTE	тv	Mutes TV Audio
	тν	Selects the TV Input Mode
	ALL COMPONENTS	Programmable Button that can operate up to six (6) Remote Functions at once
ACTION	TV	Activates TV Menus
VOL VOL	TV ABLE S	Channel Up/Down, Menu Navigation Channel Up/Down Volume Up/Down, Menu Navigation Search for Infrared Code when Programming Remote
1 2 3 4 5 6 7 8 9 0	TV VCR CABLE	Selects Channel Selects Code in Game Guard Menu Selects Channel in Channel Caption Menu Selects Channel in Timer Menu Selects Infrared Code when Programming Remote Selects Infrared Code when Programming Remote
R-TUNE	τν	Switches Between Two (2) Channels
RECALL	тν	Displays Channel (or Video Mode), Channel Caption, Time, Sleep Time, and Audio Mode

### Remote Control Quick Reference Functional Key Chart (cont.)

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KEY	OPERATES	FUNCTION
	TV VCR CABLE	TV Mode Selection for Remote Control VCR Mode Selection for Remote Control CATV Mode Selection for Remote Control
CABLE POMER	CABLE	Turns Cable On and Off
	VCR	Turns VCR On and Off
REC	VCR	Record
STOP -	VCR	Stop
	VCR	VCR Channel Up/Down
	TV VCR	PIP ON/Off Fast Forward
PLAY SIZE	TV VCR	PIP Size Play
REW NOVE	TV VCR	PIP Move Rewind
PAUSE	TV VCR	PIP Swap Pause
	TV VCR	PIP Freeze Selects TV/VCR Mode

### (for CT-3268S)

## Location of Controls Remote (for CT-32S21)

### **Basic Remote Control Functions**

The following is an overview of the Remote Control unit for television operation. Ensure the TV mode is selected by initially pressing 🔗 .



Programmable to operate up to six Remote Control Function buttons simultaneously.

Power Button Press to turn ON or OFF.

### Mode Selection Buttons

Select the operation mode for the remote control.

#### **Volume Buttons**

Press to adjust TV sound level. Use with Channel buttons to navigate in menus.

#### **Action Button**

Press to display Main Menu and access or exit On Screen feature and Adjustment Menus.

**R-Tune (Rapid Tune) Button** Press to switch to the previous channel.

#### **PIP Move Button**

Press to position PIP frame to anycorner of the Main Picture (when PIP frame is displayed).

#### **PIP Freeze Button**

Press to stop action in the Main ... Picture or PIP frame (when the PIP frame is displayed).

#### **PIP Size Button**

Press to select size of PIP frame (when the PIP frame is displayed).





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### Home Theater Remote Control EUR511060

#### **Keypad "0 through 9" Buttons** Press desired channel number to randomly access any channel.

#### **TV/Video Button**

Press to select TV or one of two Video Inputs, for the Main Picture or the PIP frame (when the PIP frame is displayed).

#### Mute Button

Press to mute sound. A second press resumes sound.

#### **Channel Buttons**

Press to select channels. Use with Volume buttons to navigate in menus.

#### **Recall Button**

Press to display Time, status of Sleep Timer, Channel, Video Mode, Channel Caption (Station Identifier) and Audio Mode.

#### PIP (Picture In Picture) Button

Press to display the PIP frame, press again to remove PIP frame.

#### **PIP Swap Button**

Press to interchange PIP frame with Main Picture (when the PIP frame is displayed).

#### **VCR Function Buttons**

Programmable to operate many brands of VCR's.

#### VCR/DSS Channel Buttons

Select VCR or DSS Up/Down channels.

### **Helpful Hints:**

If the selected component does not respond to the remote control, ensure that the proper mode is selected. First, press the Mode Selection Button that corresponds to that component. For example, after first pressing the TV Mode Button, the remote will remain in the TV mode for the following commands. If a different mode button is pressed while operating the television, the TV mode button must be pressed again to enable the TV mode condition.

#### Note:

For more information on the Remote Control, please refer to the Remote Control Quick Reference Functional Key Chart.

## Remote Control Quick Reference Functional Key Chart

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## (for CT-32S21)

KEY	MODE	FUNCTION
	TV VCR, VCR 2 CABLE, DSS	Selects Channel Selects Channel Selects Channel
1 2 3 4 5 6 7 8 9	RECEIVER/AMPLIFIER	<ul> <li>Selects Tuner</li> <li>Selects CD Player</li> <li>Selects Tape Cassette Player</li> <li>VCR 1</li> <li>VCR 2</li> </ul>
0	CD PLAYER	Selects Track Number
	LD PLAYER	Selects Track Number
WIT	ALL COMPONENTS	Programmable Button That Can Operate Up To Six (6) Remote Functions At Once
TYANED	т	Selects the TV Input Mode
Power	ALL COMPONENTS	Turns On and Off Selected Components
MUTE ,	TV, DSS, VCR, VCR 2 LDP CABLE RECEIVER/AMPLIFIER	Mutes TV Audio Mutes Audio Mutes Audio
(F)	т	TV Mode Selection for Remote Control
CBL	CABLE	Cable Mode Selection for Remote Control
DSS	DSS (DIGITAL SATELLITE SYSTEM)	DSS Mode Selection for Remote Control
	VCR, VCR 2	VCR Mode Selection for Remote Control
Real	RECEIVER/AMPLIFIER	Receiver/Amplifier Mode Selection for Remote Control
	COMPACT DISC	CD Mode Selection for Remote Control
AUX	CASSETTE DECK, VCR 2, DVD	AUX Mode Selection for Remote Control Enables User to Operate a Cassette Deck, Digital Video Disc or Second VCR
Ø	LASER DISC PLAYER	LD Mode Selection for Remote Control
(CFT)	TV CABLE DSS LDP CD RECEIVER/AMPLIFIER DVD	Channel Up/Down, Menu Navigation Channel Up/Down DSS Guides and Menu Navigation Skip FF, REW Preset or Tuning Frequency Skip FWD/Skip REW
VOL VOL	TV CABLE DSS RECEIVER/AMPLIFIER VCR, VCR 2 LDP	Volume Up/Down, Menu Navigation Volume Up/Down DSS Guides and Menu Navigation, Also Switches Between Normal Audio and SAP Volume Up/Down TV Volume Up/Down TV Volume Up/Down

### Remote Control Quick Reference Functional Key Chart (cont.) (for CT-32S21)

KEY	MODE	FUNCTION
		A/B Repeat
	TV	Switches Between Two (2) Channels
	CABLE	Switches Between Two (2) Channels
(R-TUNE)	VCR, VCR 2	Switches Between Two (2) Channels
	DSS	Switches Between Two (2) Channels
	RECEIVER/AMPLIFIER	Switches between AM and FM
	CD	Selects Next Disc
	AUDIO TAPE RECORDER	Selects Audio Tape Recorder A or B
ACTION	TV	Activates TV Menus
	DSS	Acts as Menu Button for DSS
	тv	Displays Channel, Sleep Time, Channel Caption, Time, and Audio Mode
RECALL	DSS	Displays Current DSS Settings
	VCR, VCR 2	Displays Current VCR Settings
		Displays Current LDP Settings
	······	
_	TV	PIP Move
REW	DSS	DSS Guide
	VCR, VCR 2	Rewind
	LDP	Rewind
	TAPE	Rewind Selects Providue Track
	CD DVD	Selects Previous Track Rewind
	ту	PIP Size
PLAY	DSS	Enter/Select
SIZE	VCR, VCR 2	Play
	LDP	Play
	TAPE	Play (in Normal Direction)
	CD	Play
	DVD	Play
1	TV	PIP On/Off
FF PIP	DSS	Exit/Clear
PIP	VCR, VCR 2	Fast Forward
	LDP TAPE	Fast Forward Fast Forward
		Selects Next Track
	DVD	Fast Forward
DE C	DSS	One Touch Record in DSS Mode
REC	VCR, VCR 2	Record
	TAPE	Record
	CABLE	VCR Record
	DVD	Stop
STOP	VCR, VCR 2	Stop
	LDP	Stop
	TAPE	Stop
	CD	Stop
		VCR Stop
	DVD	Pause
PAUSE		PIP Swap
	VCR, VCR 2	Pause
	LDP	Pause
	TAPE CD	Pause Pause
	CABLE	VCR Pause
······································	тv	PIP Freeze
TV/VCR	VCR, VCR 2	Selects TV/VCR Mode
FREEZE	DSS	Selects TV/DSS Mode
	CABLE	Selects TV/VCR Mode
VCR/DSS CH	VCR, VCR 2	Channel Up/Down
	DSS	Channel Up/Down

## **Special Functions**

### **Recall Button**

Press the RECALL button to review:

- 1 Audio Mode status
- (2) CH number or Video Input selected
- (3) Channel Caption (Station Identifier)
- (4) Clock time
- (5) Sleep Timer status



### **R-Tune Button**

Pressing the R-TUNE (RAPID TUNE) button will switch between the last two channels selected on the numeric keypad.

Note: When scanning channels with the CHANNEL UP/DOWN button, pressing the R-TUNE button will switch between the last two channels scanned.



### Multi Button (for CT-32S21)

The MULTI button can be programmed to operate up to six (6) Remote function buttons at the same time. For Example: TV Power/On, VCR Power/On, and Cable box Power/On (selected brands) can be operated at the same time with one press of the MULTI button. (The VCR Mode button should be programmed before starting procedure).

#### Procedure

- 1. Program the Remote for the selected device Infrared access code. Confirm that the Remote Control is compatible with the device.
- 2. Face the Remote Control transmitter away from all equipment remote sensors.
- 3. Press and hold the Remote POWER button, then press and hold the ACTION button down at the same time for three seconds. (All previous commands are erased.)



- 4. After three seconds, release the POWER and ACTION buttons.
- 5. Press the MULTI button. (Waiting more than 30 seconds without pressing another button will exit the programming mode.)
- 6. Press a maximum of six (6) function buttons on the Remote Control.

Each button you press is equal to one function. If six (6) Remote button functions are entered, all will register in the MULTI button memory in the sequence entered. When finished, press the MULTI button to exit the programming mode.

The following is an example flow chart of Remote functions that can be programmed into the MULTI button.



You can now turn the TV and VCR ON/OFF at the same time with one press of the MULTI button.

- **To delete entered functions** Press and hold the Remote POWER button, then press and hold the ACTION button down at the same time for three seconds. You can now enter from one to six different Remote functions.
- NOTE: You can also program the MULTI button to perform most individual Remote Control button functions. Buttons which continuously perform a function as long as pressed (Volume Up/Down, Channel Up/Down, etc.) cannot be programmed; only those buttons which perform a function when initially pressed (Power On/Off, Mute, Direct Channel Entry, etc.) can be programmed.

### Special Functions (cont.) Multi Button (for CT-3268S)

The MULTI button can be programmed to operate up to 6 Remote function buttons at the same time.

**For Example:** TV Power/On, VCR Power/On (selected brands) can be operated at the same time with one press of the MULTI button.

#### Procedure

- 1. First program the Remote for the selected VCR Infrared access code. Confirm that the Remote Control is compatible with the equipment.
- 2. Face the Remote Control transmitter away from all equipment remote sensors.
- Press and hold down the Remote TV Power button, then press and hold down the MULTI button at the same time. Release buttons (All previous commands will be erased.)



4. Press a maximum of 6 Function buttons on the Remote.

Each button you press is equal to one function. If six Remote button functions are entered, all will register in the MULTI button memory in the sequence entered. When less than six Remote button functions are entered, press the MULTI button to end the program mode. (Waiting more than 30 seconds without pressing another button will also end the program mode.)

The following is an example of Remote functions that can be programmed into the MULTI button.

- TV Power For turning TV ON and OFF.
- VCR Power For turning VCR ON and OFF (selected brands after programming it's Infrared access code, if necessary).

Both can be turned ON or OFF with one press of the MULTI button.



**To delete entered functions** – Repeat step 3. Now you can enter from one to six different Remote functions.

NOTE: You can also program the MULTI button to perform most individual Remote Control button functions. Buttons which continuously perform a function as long as pressed (Volume Up/Down, Channel Up/Down, etc.) cannot be programmed. Only those buttons which perform a function when initially pressed (Power On/Off, Mute, Direct Channel Entry, etc.) can be programmed.

### Cable Power Button (for CT-3268S)



The \_\_\_\_\_\_ on the Remote Control has been designed to operate selected brands of Cable Television Converter boxes. The proper cable television converter box infrared code must be obtained prior to use. (Please refer to Programming the Universal Remote for programming instructions.) The Remote Control TV/VCR/CABLE switch should be in the CABLE position.

NOTE: The A or ♥ on the Remote may be used for selecting Cable Converter box channels.

### **PIP (Picture in Picture) Button**

This feature allows the viewer to monitor one channel program while watching another. The monitored source (PIP) must be a different video source (such as a VCR) when connected to the input jacks.

• When the Main Picture is in Video mode with no signal, the PIP will not operate properly.

#### **PIP Operation**

- 1. Turn VCR ON and select a desired channel.
- 2. Press the TV Mode Selection button to operate TV Remote functions, if necessary (some models).
- Press the PIP button (set must be ON). The PIP frame will appear at the position it was last displayed. The Main Picture Video Source and PIP Video Source will display on screen momentarily. Audio will be that of Main Picture.



4. Press the PIP button again to cancel PICTURE IN PICTURE feature (if desired).

**NOTE:** For PIP Video source connection, refer to the PIP Operation Using VCR As second Tuner section.

## Special Functions (cont.)

### **Swap Button**

Press the SWAP button (when the PIP frame is displayed) to interchange what is being viewed on the Main Picture with that of the PIP frame.



NOTE: Audio will be that of Main Picture.

### Size Button

Press the SIZE button (when the PIP frame is displayed) to choose either the large or small PIP frame.



### **Freeze Button**

Press the FREEZE button to stop action in the PIP frame.



### NOTES:

- Pressing the FREEZE button when the PIP frame is not displayed, will stop action in the Main Picture and display it within the PIP frame.
- Pressing the FREEZE button when PIP frame is displayed, will stop action in the PIP frame. Press the FREEZE button again to continue action.
- Press the PIP button to delete PIP frame.

### **Move Button**

The PIP frame may be located at any corner of the Main Picture by pressing the PIP MOVE button (when the PIP frame is displayed).



**NOTE:** Each time MOVE button is pressed (when the PIP frame is displayed), the PIP frame will move counterclockwise as illustrated.



## Main Menu Icons



**NOTE:** When Auto Power On feature is activated, Timer Icon will change to an Exit Icon.



Located On Remote Control

- 1. Press 🛲.
- Press A or ♥ and ♥ or ₱ to select the desired lcon.
- 3. Press after selecting the desired lcon to access sub menus.
- 4. Press twice to exit sub menus or press monoce while the EXIT Icon is highlighted to exit Main Menu.

## 

### **Menu Language Selection**

The MENU LANGUAGE is factory set to ENGLISH. Follow the instructions to change the Menu Language to SPANISH, FRENCH, and back to ENGLISH.

- 1. Press
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\heartsuit$  to highlight the Set-Up lcon.
- 3. Press (Arraw) to display the Set-Up Menu.

	ISET-UP		
SET TIME ANT AUTO PR	DG T		
CC MOD	VER ON O	FF	

- Press or <sup>™</sup> to highlight ENGLISH, ESPAÑOL, FRANÇAIS.
- 5. Press I or b to select ENGLISH, ESPAÑOL, or FRANÇAIS.
- 6. Press menus.

1.,

## **Picture Adjustments**

### **Picture Norm**

Use to reset Color, Tint, Brightness, Picture, and Sharpness adjustments back to a factory preset level.

- 1. Press
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or P to highlight the Picture Icon.
- 3. Press () to display the Picture Adjustment Menu.

	RIGTURE
PICTURE COLOR TINT BRIGHTNI PICTURE SHARPNE	IIIIIIIIIIIIIboacooo coccoolboocooo SS IIIIIIIIIIIIboacooo uuuuuuuuuuuuuuuuuu

- 4. Press  $\triangle$  or  $\overline{\heartsuit}$  to highlight PICTURE NORM.
- 5. Press ≪ or ≫ to select "SET" to normalize Color, Tint, Brightness, Picture, and Sharpness.
- 6. Press ( twice to exit menus.

# Color, Tint, Brightness, Picture, and Sharpness Adjustments

- 1. Press 🛲.
- 2. Press  $\triangle$  or  $\overline{\nabla}$  and  $\overline{\nabla}$  or  $\overline{D}$  to highlight the Picture Icon.
- 3. Press res to display the Picture Adjustment Menu.

PICTURE NORM NO COLOR 31 UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
PICTURE CONTINUED SHARPNESS CONTINUED SHARPNESS

- Press A or ♥ to select the desired Picture Adjustment (Color, Tint, Brightness, Picture, or Sharpness).
- 5. Press G or b to adjust your selection. (The Selected Picture Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for the remaining Picture Adjustments.
- 7. Press twice to exit menus.

Helpful Hints:

**COLOR** – Adjust for desired color intensity.

**TINT** – Adjust for natural flesh tones.

**BRIGHTNESS** – Adjust so dark areas of picture slightly become black for a crisp detail.

**PICTURE** – Adjust the white areas of the picture as desired.

SHARPNESS - Adjust for best clarity of outline detail.

## Audio Adjustments

### Mode

When Audio is broadcast in Stereo or SAP, an On-Screen display will appear on initial "Turn On" and "Channel Change". The available choices will be highlighted.

- 1. Press
- 2. Press  $\bigoplus$  or V and  $\oiint$  or P to highlight the Audio Icon.
- 3. Press to display the Audio Adjustment Menu.



- 4. Press A or V to highlight MODE.
- Press <sup>Q</sup> or <sup>D</sup> to select STEREO, SAP (Second Audio Programming), or MONO. The selected mode will be highlighted.
- 6. Press me twice to exit menus.

### Helpful Hints:

STEREO - Two channel Audio reception.

**SAP** – Second Audio Programming (such as bilingual audio, weather reports, etc.).

MONO - Use when stereo signal is weak.

### Al Sound (Used in CT-32S21 only)

This feature regulates the volume between programs and commercial audio to maintain a constant sound output level.

- 1. Press 🛲.
- 2. Press A or ♥ and ♥ or ▶ to highlight the Audio Icon.
- 3. Press me to display the Audio Adjustment Menu.

	AUDIO
	,
MODE Al-SOUNI	STEREO SAP MONO
TV SPEA	XERS ON

- 4. Press  $\triangle$  or  $\heartsuit$  to highlight AI SOUND.
- 5. Press Press or Press to select ON or OFF.
- 6. Press menus.

### **TV Speakers**

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the TV is connected to an External Audio Amplifier. (Refer to "To Audio Amp Connection" section for further information.)

- 1. Press 🛲
- 2. Press A or and or b to highlight the Audio Icon.
- 3. Press control to display the Audio Adjustment Menu.

	AUDIO
MODE TV SPEAK	ERS ON

- 4. Press A or ♥ to highlight TV SPEAKERS.
- 5. Press or both to select ON, OFF&VAO or OFF&FAO.
  - ON TV SPEAKERS operate normally
  - OFF&VAO (Variable Audio Output) TV SPEAKERS off, the sound output varies according to the TV volume. Use the TV remote to control the volume and muting of the External Amplifier System
  - OFF&FAO (Fixed Audio Output) TV SPEAKERS off, sound output is not adjustable. The audio is controlled by the External Amplifier System volume control
- 6. Press twice to exit menus.

## Lock Features

### Lock Game Guard

Prevents video games and other video sources from being viewed. Channel 3, 4 and video inputs are locked out for 12, 24 or 48 hours. **NOTE:** Be sure to understand this feature before attempting its use. **Use a code that you will easily remember or write the code on a piece of paper.** 

- 1. Press
- 2. Press  $\bigotimes$  or  $\heartsuit$  and  $\bowtie$  or  $\bigotimes$  to highlight the Lock Icon.
- 3. Press (1) to display the Lock Menu.



4. "HOW LONG" should already be highlighted. Press
 b to select the desired amount of time (12, 24 or 48)

hours) for Game Guard Lockout to be activated.

- 5. Press ♥ to highlight ENTER CODE. Then enter a 3 digit code with the Remote Control Keypad. "SET" should be highlighted after entering the last digit. IMPORTANT NOTE: Use a code you can easily remember or write the code on a piece of paper.
- 6. Press After entering three digit code. "Game Guard Locked" will display On Screen.



Game Guard Activated

### **Unlock Game Guard**

To unlock the Game Guard feature, repeat steps 1 through 3. Enter the same 3 digit code previously used in step 5 with Remote Control Keypad.



Enter Same 3 Digit Code Previously Used



If 3 Digit Code Is The Same



If 3 Digit Code Is Not The Same

## **Channel Caption**

This feature allows you to enter the call names of up to 30 stations into memory (using up to 4 characters for each station). The call name will then display along with the channel number when changing channels or pressing RECALL.

	Channel Caption (Station Identifier)
<u>`</u>	

- 1. Press
- Press A or ♥ and ♥ or ₱ to highlight the Channel Caption lcon.
- 3. Press to display the Channel Caption Menu.



- 4. Press , or , or use the Remote Control Keypad to enter the channel number you wish to assign a Station Identifier.
- 5. Press 🖤 to highlight ENTER CAPTION.
- 6. Press or boot to select first character in Station Identifier. Then press to move cursor to the second position and repeat until the complete Station Identifier is entered (up to 4 characters).
- 7. Press a or v to highlight ENTER CHANNEL NUMBER. Then repeat steps 4 through 6 to continue adding Channel Station Identifier(s).
- 8. Press wice to exit menus.
- NOTE: To delete a Channel Caption (Station Identifier) from memory all four character positions in the "ENTER CAPTION" area must display a dash mark (–).

### Helpful Hints:

When the Maximum amount of station identifiers are entered, "FULL" will be displayed in the caption position.

## Timer Features

### **Sleep Timer**

This feature is used for automatic turn off in 30, 60 or 90 minutes. Display will flash 3, 2 and 1 to indicate the last three remaining minutes prior to turn off. The Recall display will also appear.

#### NOTE: This feature will be disabled when Auto Power On is activated.

- 1. Press
- 2. Press  $\triangle$  or  $\overline{\nabla}$  and  $\overline{\overline{\nabla}}$  or  $\overline{P}$  to highlight the Timer lcon.
- 3. Press me to display the Timer Control Menu.

TIMER	CONT	ROL	
TIMER RAM TIMER ON	NO :		
OFF CHANNEL SET	: 3 NO		

- 4. Press by to select NO, 30, 60 or 90 minutes (Sleep Timer will be activated).
- 5. Press menus.
- **NOTE: To deactivate** Sleep Timer repeat steps 1 through 4. In step 4 select "NO" instead of minutes.

Helpful Hints:

You.

Press the RECALL button to display the remaining minutes for Sleep Timer, the status will display in the bottom left corner.

### Timer Features (cont.)

### Special Feature:

Automatic turn "OFF" after 90 minutes.

The TV has a special feature that will shut itself **OFF** after 90 minutes when turned **ON** by the program timer unless a function key is pressed during the 90 minutes.

This feature is useful so that the TV will not remain **ON** unattended for an extended period of time.

Programming the **OFF** timer will cancel the automatic **OFF** Special Feature.

### **Program Timer**

This feature is capable of turning the TV on, tuned to a desired channel and off at a predetermined time (one day or daily). The clock must be set for this feature to operate. (Refer to the Set–Up Menu to set time.)

- NOTE: This feature will be disabled when Auto Power On is activated.
- 1. Press 📖.
- 2. Press A or and or b to highlight the Timer lcon.
- 3. Press e to display the Timer Control Menu.



- Press ♥ to highlight ON (time).
- 5. Press <sup>€</sup> or <sup>▶</sup> repeatedly to set hours (set AM/PM accordingly).
- Press I to highlight the minutes position.
- 7. Press  $\triangleleft$  or  $\bowtie$  repeatedly to set minutes.
- 8. Press  $\overline{\heartsuit}$  to highlight OFF (time).

	TIME	CONT	ROL	
SLEEP T PROGRA		, NO	1013) 1753	
	ON	12 12	30 45	
2000 C	SET	IEL NC	9 )	

- 9. Repeat steps 5 through 7 for setting OFF (time).
- 10. Press To highlight CHANNEL.



- 12. Press I to highlight SET.

			ROL		
COURTED S	Macol	no.		13/11/18	8 - 19 <b>-</b>
Racer	IMER MTIME	Carlos Carlos and Ar			
		(E) (E)	8 800 G 8 409 G	M M	
	and the second second	vn - n - i	ถัง 🚩 🍈	i Station (Service)	1.00

- 13. Press Do to select:
  - NO not activated
  - ONE DAY activated
  - DAILY activated
- 14. Press (twice to exit menus.

NOTE: To deactivate Program Timer select NO in step 13.

Helpful Hints:
If the Program Timer "ON" functions while the set is operating, the set will automatically tune to the channel designated in the Timer Program.

## Set-Up Features

### Set Time

Clock (when set) will display on screen at initial "Turn On", after a channel change and when pressing the RECALL button. The time must be set first in order to operate the Program ON/OFF Timer.

#### NOTE: This feature will be disabled when Auto Power On is activated.

- 1. Press 📟.
- Press A or ♥ and ♥ or ₱ to highlight the Set-Up lcon.
- 3. Press ( to display the Set-Up Menu.

	2
SET TIME	
AUTO PROG MANUAL PROG AUTO POWER ON	NO NO OFF
CC MODE ESPAN	OFF

- 4. Press  $\mathfrak{S}$  or  $\mathfrak{P}$  to set hours (set AM/PM accordingly).
- Press ♥ to select minutes position.
- 6. Press 🔍 or 🖻 repeatedly to set minutes.
- 7. Press wice to exit menus.

### Antenna (Ant)

The proper Input mode must be selected for the type of signal at the antenna input.

- TV mode is used when the Receiver is not connected to a cable TV system, for example when using a VHF/UHF antenna (channels 02 – 69).
- Cable mode is used when the Receiver is connected to a Cable TV system and you are not using a cable company converter box (channels 01 – 125).

## NOTE: This feature is disabled when Game Guard Lock is activated.

- 1. Press Con.
- Press or and or or to highlight the Set–Up lcon.
- 3. Press (The set-Up Menu.

	SETEUP	
SET TIME ANT AUTO PRO MANUAL I	G	
	VERION	NO OFF OFF ANCAIS

- 4. Press To highlight ANT.
- 5. Press 🔍 or 🎾 to select TV or CABLE.
- 6. Press ( twice to exit menus.

### **Auto Prog**

This feature allows you to place all channels with a video signal into Channel Scan Memory.

- NOTE: This feature is disabled when Game Guard Lock is activated.
- 1. Press
- 2. Press and and or by to highlight the Set-Up lcon.
- 3. Press em to display the Set-Up Menu.

SET UP SET	UP
	201
AUTO PROG	NO
MANUAL PROC	
AUTO POWER	ON OFF
CC MODE	OFF -
ENGLIGH EST	ANOL FRANCAIS

- 4. Press 🖤 to highlight AUTO PROG.
- Press or boot to start Auto Programming. Channels will automatically advance until all channels have been scanned.
- 6. Press twice after completion of Auto Programming to exit menus.
- **NOTE:** Channel numbers with signal present will turn blue which indicates stored in Channel Scan Memory.

### Set-Up Features (cont.)

### **Manual Prog**

This feature allows you to select which channels are placed into Channel Scan Memory.

- Press 1.
- Press A or and or b to highlight the Set-Up 2. Icon.
- Press to display the Set-Up Menu. 3.

SET-UP SET-UP
SET TIME ANT TV AUTO PROG NO MANUAL PROG NO AUTO POWER ON OFF CC MODE OFF ESPANOL FRANCAIS

- 4. Press  $\overline{\heartsuit}$  to highlight MANUAL PROG.
- 5. Press  $rac{1}{2}$  or  $rac{1}{2}$  to display the Manual Programming Menu.
- NOTE: This feature is disabled when Game Guard Lock is activated.



- Press Press to add channel(s) to memory (Blue). Press 7 to delete channels from memory (Yellow).

- Repeat steps 6 and 7 to continue adding or deleting 8. channels.
- 9. Press menus.

### Auto Power On

This feature allows the user to power up the TV at the same time as the cable box (or other components). The TV must be plugged into the cable box switched outlet.

NOTE: When this feature is activated (on), Timer features will be disabled and will reset.

1. Press

- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\heartsuit$  to highlight the Set–Up
- 3. Press (across) to display the Set-Up Menu.

SET_UP SET_UP
SET TIME
CC MODE OFF ESPANOL FRANCAIS

- 4. Press ♥ to highlight AUTO POWER ON.
- 5. Press  $\mathfrak{S}$  or  $\mathfrak{P}$  to select SET or OFF.
- 6. Press (ATTOR) twice to exit menus.

### CC (Closed Caption) Mode

This Receiver has a built in decoder that provides a visual depiction of the audio portion of a television program, in the form of written words across the screen (White or Colored letters on a black background). It allows the viewer to read the dialogue of a television program or other information.

When the Closed Caption is in the OFF Mode: The viewer may display closed caption by pressing (NUTE) on the remote control. Press again to delete.

- 1 Press (Action)
- Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to highlight the Set–Up
- 3. Press (me to display the Set-Up Menu.

	2
TV	
SETTIME	
ANT AUTO PROG	TV NO
MANUAL PROG AUTO POWER ON	NŎ OFF
CC MODE	OFF
ESPAN	IOL FRANCAIS

- 4. Press ♥ to highlight CC MODE.
- 5. Press boto select OFF. C1. or C2.
- 6. Press ( twice to exit menus.

#### Programming The Universal Remote Control (for CT-3268S) Cable Box VCR

#### Preferred Procedure – Code Known Programming Universal Remote Using Infrared Access Codes for VCRs

- Determine brand of VCR.
- Identify code(s) associated with the brand in the infrared code index for VCRs (located in this manual).

### Procedure

TV/VCR/CABLE

Place the Remote 1.

Release

- into the VCR position. VCR POWER
- Press and hold down on Universal 2. Remote.
- 3. Enter two digit code using keypad "0 through 9" buttons. VCR POWER

The Universal Remote is now programmed.

NOTE: Some brands have multiple codes. Repeat procedure using each code listed until VCR responds correctly.

### Alternate Procedure – Code Unknown Programming Universal Remote Using the "Sequence Method" for VCRs

 Confirm VCR is plugged in and operating properly, then turn OFF.

#### Procedure

- TV/VCR/CABLE
- Place the Remote into the VCR position. 1. VCR POWER
- Press and hold the down on Universal 2. Remote.
- 3. Press Prepeatedly. Check for the VCR to turn ON after each press. When the VCR turns ON, release VCR Power button. The proper infrared code has now been accessed.

### NOTES:

- It may take several attempts before the correct code is 1. found.
- The 🚭 can be used to return to a code that was 2. accidently passed by.
- Some Remote Controls may have unique operating 3. functions for some buttons. For Example: The POWER button may only turn the VCR OFF as opposed to both ON and OFF. It will then be necessary to modify the procedure. Turn the VCR ON and repeatedly press the by until the VCR turns OFF.

### Preferred Procedure – Code Known Programming Universal Remote Using Infrared Access Codes for Cable Boxes

- Determine brand of Cable box.
- Identify code(s) associated with the brand in the infrared code index for Cable boxes (located in this manual).

#### Procedure

TV/VCR/CABLE Remote into the CABLE 1. Place the position.

CABLE POWER

- 2. Press and hold the l down on Universal Remote.
- 3. Enter two digit code using keypad "0 through 9" buttons.



The Universal Remote is now Release L programmed. Use the Remote 🖄 and  $\overline{\heartsuit}$  for selecting Cable Box channels.

NOTE: Some brands have multiple codes. Repeat procedure using each code listed until Cable box responds correctly.

### Alternate Procedure – Code Unknown **Programming Universal Remote Using the** "Sequence Method" for Cable Boxes

 Confirm Cable box is plugged in and operating properly, then turn OFF.

### Procedure

Place the Remote into the CABLE 1. position.

TV/VCR/CABLE

## CABLE

- 2. Press and hold down on Universal Remote.
- Press Prepeatedly. Check for the Cable box to turn 3. ON after each press. When the Cable box turns ON. release Cable Power button. The proper infrared code has now been accessed.

#### NOTES:

- It may take several attempts before the correct code is found.
- The <sup>eq</sup> can be used to return to a code that was accidently passed by.
- Some Remote Controls may have unique operating functions for some buttons. For Example: The POWER button may only turn the Cable box OFF as opposed to both ON and OFF. It will then be necessary to modify the procedure. Turn the Cable box ON and repeatedly press the 🔊 until the Cable box turns OFF.
- NOTE: When operating equipment (VCR or Cable box) with the Universal Remote Control, the TV/VCR/CABLE Switch should be set to the same position where the Access Code was first programmed for the equipment. Otherwise, leave the switch in the TV position.

### VCR and Cable Box Infrared Codes Index (for CT-3268S)

The Universal infrared Remote Control is capable of operating many brands of VCRs and Cable Boxes after entering the proper infrared code.

**NOTE:** The Universal Remote Control memory is limited. Some models of VCRs or Cable Boxes may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

Code Index for VCRs				
Brand of VCR	Code(s)	Brand of VCR	Code(s)	
Audio Dynamics	14, 16	NEC	02, 14, 16, 30	
Broksonic	10	Panasonic	00, 01	
Canon	00, 01	Pentax	05	
Capehart	01	Philco	00, 29	
Citizen Craig Curtis Mathes DBX	09 12 00, 08, 15	Philips Pioneer Quasar	00, 29 05 00, 01	
Emerson Fisher Funai	14, 16 10, 20, 34, 35, 36, 37 12, 18, 19 15	RCA Realistic Samsung Sanyo	05, 07, 08, 28, 35 00, 02, 06, 12, 15 07, 32 02, 12	
GE	00, 07, 08, 32	Scott	04, 13, 33, 36	
Goldstar	09	Sears	02, 05, 18, 19	
Hitachi	05, 35, 36	Sharp	06, 24	
Instant Replay	00	Sony	17, 26, 33, 34	
JC Penney	00, 02, 05, 14, 16, 30	Sylvania	00, 29	
JVC	02, 14, 16, 30	Symphonic	15	
Kenwood	02, 14, 16, 30	Tashiko	09	
Magnavox	02, 29	Tatung	30	
Marantz	02, 14, 16, 29, 30	Teac	15, 30	
Marta	09	Teknika	21	
Memorex	00, 12	Toshiba	05, 13	
MGA	04, 27	Vector Research	14, 16	
Minolta	05	Video Concepts	14, 16	
Mitsubishi	04, 27	Wards	06	
Montgomery Ward	06	Yamaha	02, 14, 16, 30	
Multitech	07, 15, 32	Zenith	11, 17	

Code Index for Cable Box				
Brand of Cable Box	Code(s)	Brand of Cable Box	Code(s)	
G.I.	04, 05, 15, 23, 24, 25, 30, 36	Pioneer RCA	18, 20 27	
Hamlin	12, 13, 34	Regency	02	
Jerrold	04, 05, 15, 23, 24,	Scientific Atlantic	03, 22	
	25, 30, 36	Sylvania	11	
Macom	27	Texscan	10, 11	
Magnavox	19, 26, 28, 29, 32,	Tocom	17,21	
_	33, 40, 41	Unika	31	
Oak	14,16, 18	Viewstar	19, 26, 28, 29, 32,	
Oak Sigma	16		33, 40, 41	
Panasonic Philips	27, 39 19, 26, 28, 29, 32,	Zenith	01, 42	
	<u>33, 40, 41</u>			

## Programming the Home Theater Remote (for CT-32S21)

The remote control can be set to control other manufacturers components, by utilizing the MODE SELECTION BUTTONS for CABLE, DSS, VCR, RCVR (a Receiver or Amplifier), CD, LD, and AUX (for Cassette Players, Second VCR or a DVD.)

### Code Known

Use the following procedure for setting up the remote control using the numerical buttons when the component's remote code is known.

- 1 Determine the brand of the component.
- 2 Identify the code(s) associated with the brand from the infrared code index (see following pages). Record all possible codes.
- 3 Confirm that the component is plugged in and operating properly, then turn it OFF.
- Press and hold the button, then the button so that both are pressed at the same time for at least
   <u>5 seconds</u>. All Mode buttons will flash. Then let go of the buttons.
- 5 Press the appropriate Mode button for the component. The pressed button will illuminate steadily. All other buttons will go out.
- 6 Enter the 3-digit code, by using the Remote Control Keypad "0" through "9" buttons. If a proper code was entered, the Mode button will blink twice then go out.

Now the remote is set for the entered code.

- Press the embedded button to test the remote. If the correct code is setup for the component (in step 6), the component will turn on.
- **NOTE:** Some brands have multiple codes. Repeat the procedure using another listed code until the component responds correctly.



EUR511060

Code Unknown

Use the following procedure for setting up the remote control when the component's remote access code is not known. This procedure uses the "sequence method".

Confirm that the component is plugged in and operating properly, then turn it OFF.

- Press and hold the me button, then the button so that both are pressed at the same time for at least 5 seconds. All Mode buttons will flash. Then let go of the buttons.
- Press the appropriate Mode button for the device. The pressed button will illuminate steadily. All other buttons will go out.

Press the button to step over to the next code.

5 Press the button to test the remote. If the correct code is sent, the component will turn on.

6 Once the correct code is found, press the model button to store the code.

Repeat from step above until the proper component code is found. It may take several attempts before the correct code is found.

**NOTE:** If an incorrect code is entered, or when the operation is not completed within 30 seconds, the settings will not change.

Infrared Re	mote Codes for Specific C	omponents
Helpful Hint: Write down the co- will serve as a han	de numbers for your components in dy reference whenever you need to	the space provided below. This reprogram your remote control.
CABLE Cable TV Converter Box	VCR Video Cassette Recorder	CD Compact Disc Player
DSS Digital Satellite System	RCVR Receiver or Amplifier	LD Laser Disc Player
Other Component	Other Component	Other Component
Other Component	Other Component	Other Component

## VCR Infrared Codes Index (for CT-32S21)

The Universal Infrared Remote Control is capable of operating many brands of VCRs. Refer to the Programming the Remote Control section for procedures.

- Note: The Universal Remote Control memory is limited; therefore, some models of VCRs may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- Note: After entering the proper infrared code, press the Remote VCR (\*) Selection Mode button. A second VCR can be activated using the same codes, from AUX (\*\*) Selection Mode button. Then refer to the Remote Control Key Functions section, for Remote VCR and VCR 2 function key listing.

*	R
	>



VCR Brand         Code(s)         VCR Brand         Code(s)           Admiral         200         Pentax         000, 011, 300           Aiwa         137, 160         Philco         081, 125, 130, 136,           Akai         014, 015, 016, 142         137, 150           Audio Dynamic         011, 240         Philips         125, 130, 150           Broksonic         081, 136         Proscan         000, 001, 002, 125,           Canon         125, 135         Proscan         000, 001, 002, 125,           Canon         125, 135         Quasar         100, 101, 125, 130,           Citizen         006         Quasar         100, 101, 125, 130,           Cardig         005, 006, 141         Radio Shack         005, 009, 130, 137,           Daewoo         001, 130, 250         RCA         000, 001, 002, 125,           DBX         010, 011, 240         310         310           Dimensia         300         Sansuig         002, 004, 220           Fisher         005, 007, 008, 009         Sansui         081, 136, 240, 240           GE         130, 170, 300         Sanyo         005, 009, 005, 006, 007, 08, 009           Go Video         220         081, 136, 230, 241, 330, 340           <
Aiwa         137, 160         Philco         081, 125, 130, 136,           Akai         014, 015, 016, 142         137, 150           Audio Dynamic         011, 240         Philco         137, 150           Bell & Howell         005, 013         Pioneer         125, 130, 150           Broksonic         081, 136         Proscan         000, 001, 002, 125, 130           Canon         125, 135         130, 150, 300, 310         Quasar         100, 101, 125, 130           Citizen         006         Quasar         100, 101, 125, 130         170, 210, 241           Daewoo         001, 130, 250         RCA         000, 001, 002, 125, 130, 150, 170, 300, 310           Dimensia         300         8         130, 150, 170, 300, 310           Emerson         003, 051, 080, 081, 135, 136, 243, 250         RCA         005, 009, 130, 137, 210, 241           Fisher         005, 007, 08, 009         Sansui         081, 136, 240           GE         130, 170, 300         Sansui         081, 136, 240, 220           Goddstar         006         Scott         001, 002, 004, 009, 005, 006, 007, 008, 041, 330, 340           Instant Replay         125, 130, 220         Shaintom         050           JVC         010, 011, 190, 240         Shaintom
Akai         014,015,016,142         137,150           Audio Dynamic         011,240         Philips         125,130,150           Bell & Howell         005,013         Pioneer         125           Broksonic         081,136         Proscan         000,001,002,125,           Canon         125,135         130,150,300,310         Quasar           Citizen         006         Quasar         100,101,125,130           Caraig         005,006,141         Radio Shack         005,009,130,137,           Curtis Mathes         130,137,300         RCA         000,001,002,125,           DBX         010,011,240         130,150,170,300,         310           Dimensia         300         Realistic         005,009,130,137,           Emerson         003,051,080,081,         Realistic         005,009,130,137,           GE         130,170,300         Sansui         081,136,243,250           Fisher         005,007,008,009         Sansui         081,136,240           GE         130,170,300         Sansui         081,136,240           Goldstar         006         Scott         001,002,004,009,           Go Video         220         081,136,230,241,         008,03,340           Instant Repla
Audio Dynamic         011, 240         Philips         125, 130, 150           Bell & Howell         005, 013         Pioneer         125           Broksonic         081, 136         Proscan         000, 001, 002, 125, 130           Canon         125, 135         130, 150, 300, 310           Citizen         006         Quasar         100, 101, 125, 130           Craig         005, 006, 141         Radio Shack         005, 009, 130, 137, 170, 210, 241           Daewoo         001, 130, 250         RCA         000, 001, 002, 125, 130, 150, 170, 300, 310           Dimensia         300         Realistic         005, 009, 130, 137, 130, 150, 170, 300, 310           Emerson         003, 051, 080, 081, 136, 243, 250         Realistic         005, 009, 130, 137, 130, 150, 170, 300, 310           GE         130, 170, 300         Samsung         002, 004, 220         Sansui           Ge         130, 170, 300         Sanyo         005, 009, 009, 005, 009         Sanyo           Goldstar         006         Scott         001, 002, 004, 009, 081, 136, 230, 241, 330, 340           Instant Replay         125, 130, 125, 300, 11, 190, 240         Shaintom         050           VC         010, 011, 190, 240         Shaintom         050           VC         010,
Bell & Howell         005, 013         Pioneer         125           Broksonic         081, 136         Proscan         000, 001, 002, 125, 130           Canon         125, 135         130, 150, 300, 310         Quasar         100, 101, 125, 130           Craig         005, 006, 141         Radio Shack         005, 009, 130, 137, 170, 210, 241         Radio Shack         000, 001, 002, 125, 130           Daewoo         001, 130, 250         RCA         000, 001, 002, 125, 130, 150, 170, 300, 310         170, 210, 241           Daewoo         001, 011, 240         130, 150, 170, 300, 310         130, 150, 170, 300, 310         130, 150, 170, 300, 310           Dimensia         300         Brealistic         005, 009, 130, 137, 200         130, 150, 170, 300, 310           Fisher         005, 007, 008, 009         Samsung         002, 004, 220         210, 241           Fisher         005, 007, 008, 009         Sansui         081, 136, 240         Sansui           GE         130, 170, 300         Sansui         081, 136, 230, 241, 330, 340         303, 340           Instant Replay         125, 130, 125, 300, 11, 140, 125, 300, 11, 140, 141, 142         Shaintom         050           JVC         010, 011, 190, 240         Shaintom         050         Sanap         008, 310
Broksonic         081, 136         Proscan         000, 001, 002, 125,           Canon         125, 135         130, 150, 300, 310           Citizen         006         Quasar         100, 101, 125, 130           Craig         005, 006, 141         Radio Shack         005, 009, 130, 137,           Curtis Mathes         130, 137, 300         RCA         000, 001, 002, 125,           Daewoo         001, 130, 250         RCA         000, 001, 002, 125,           DBX         010, 011, 240         130, 150, 170, 300,         310           Emerson         003, 051, 080, 081,         Realistic         005, 009, 130, 137,           135, 136, 243, 250         210, 241         130, 170, 300,         310           Fisher         005, 007, 008, 009         Samsung         002, 004, 220         210, 241           Fisher         005, 007, 008, 009         Sansui         081, 136, 240, 240         Sansui         081, 136, 240, 240           GE         130, 170, 300         Sanyo         005, 009, 009, 009, 005, 009, 009, 005, 009, 005, 009, 005, 009, 005, 009, 005, 006, 007, 08, 0340         330, 340           Instant Replay         125, 130, 125, 130, 137, 200         Sanyo         008, 009, 137, 200           JVC         010, 011, 190, 240         Shaintom         050
Canon         125, 135         130, 150, 300, 310           Citizen         006         Quasar         100, 101, 125, 130           Craig         005, 006, 141         Radio Shack         005, 009, 130, 137,           Curtis Mathes         130, 137, 300         RCA         000, 001, 002, 125,           Daewoo         001, 130, 250         RCA         000, 001, 002, 125,           DBX         010, 011, 240         130, 150, 170, 300,         310           Emerson         003, 051, 080, 081,         Realistic         005, 009, 130, 137,           135, 136, 243, 250         Samsung         002, 004, 220           Funai         081, 136, 137         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009           Goldstar         006         Scott         001, 002, 004, 009,           Goldstar         006,         Scott         001, 002, 004, 009,           Instant Replay         125, 130,         Sears         000, 005, 006, 007,           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007,         Signature 2000         137, 200     <
Citizen         006         Quasar         100, 101, 125, 130           Craig         005, 006, 141         Radio Shack         005, 009, 130, 137,           Curtis Mathes         130, 137, 300         Radio Shack         005, 009, 130, 137,           Daewoo         001, 130, 250         RCA         000, 001, 002, 125,           DBX         010, 011, 240         130, 150, 170, 300,         310           Emerson         003, 051, 080, 081,         Realistic         005, 009, 130, 137,           Tisher         005, 007, 008, 009         Samsung         002, 004, 220           Funai         081, 136, 137         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009, 009, 009, 009           Goldstar         006         Scott         001, 002, 004, 009, 081, 136, 230, 241, 330, 340           Instant Replay         125, 130, 125, 300, 11, 190, 240         Sears         000, 005, 006, 007, 088, 091, 330, 340           JVC         010, 011, 190, 240         Shaintorm         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007, 088, 099, 137         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony
Craig         005, 006, 141         Radio Shack         005, 009, 130, 137,           Curtis Mathes         130, 137, 300         170, 210, 241         170, 210, 241           Daewoo         001, 130, 250         RCA         000, 001, 002, 125,           DBX         010, 011, 240         130, 150, 170, 300,         310           Emerson         003, 051, 080, 081,         Realistic         005, 009, 130, 137,           Tisher         005, 007, 008, 009         Samsung         002, 004, 220           Funai         081, 136, 137         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009, 009, 009, 009           Goldstar         006         Scott         001, 002, 004, 009, 081, 136, 230, 241, 330, 340           Instant Replay         125, 130, 125, 300, 11stant Replay         125, 130, 125, 300, 1150         Sears         000, 005, 006, 007, 088, 009, 137, 200           JVC         010, 011, 190, 240         Shaintorm         050         Signature 2000         137, 200           Kenwood         006, 010, 011, 240         Sharp         200, 210         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142         140, 141, 142         140, 141, 142         140, 141, 142
Curtis Mathes         130, 137, 300         170, 210, 241           Daewoo         001, 130, 250         RCA         000, 001, 002, 125,           DBX         010, 011, 240         130, 150, 170, 300,         310           Dimensia         300         8         310         310           Emerson         003, 051, 080, 081,         135, 136, 243, 250         210, 241         210, 241           Fisher         005, 007, 008, 009         Samsung         002, 004, 220         210, 241           Funai         081, 136, 137         Sansui         081, 136, 240         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009, 009, 009, 009, 009, 009, 009,
Daewoo         001, 130, 250         RCA         000, 001, 002, 125,           DBX         010, 011, 240         130, 150, 170, 300,           Dimensia         300         310           Emerson         003, 051, 080, 081,         Realistic         005, 009, 130, 137,           135, 136, 243, 250         210, 241         210, 241           Fisher         005, 007, 008, 009         Samsung         002, 004, 220           Funai         081, 136, 137         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009, 009, 009, 009, 009, 009, 005, 009           Goldstar         006         Scott         001, 002, 004, 009, 081, 136, 230, 241, 330, 340           Hitachi         000, 125, 300, 11, 130, 240         Sears         000, 005, 006, 007, 008, 007, 008, 009, 137           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007, 088, 009, 137         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142
DBX         010,011,240         130,150,170,300,           Dimensia         300         310           Emerson         003,051,080,081,         Realistic         005,009,130,137,           135,136,243,250         210,241         210,241           Fisher         005,007,008,009         Samsung         002,004,220           Funai         081,136,137         Sansui         081,136,240           GE         130,170,300         Sanyo         005,009,009,009           Goldstar         006         Scott         001,002,004,009,           Go Video         220         081,136,230,241,         330,340           Instant Replay         125,130,         Sears         000,005,006,007,           JVC         010,011,190,240         Shaintom         050           Kenwood         006,010,011,240         Sharp         200,210           LX1         000,005,006,007,         Signature 2000         137,200           Magnavox         025,130,150         Sony         140,141,142
Dimensia         300         310           Emerson         003, 051, 080, 081, 135, 136, 243, 250         Realistic         005, 009, 130, 137, 210, 241           Fisher         005, 007, 008, 009         Samsung         002, 004, 220           Funai         081, 136, 137         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009, 009, 009, 009, 009, 009, 009,
Emerson         003, 051, 080, 081, 135, 136, 243, 250         Realistic         005, 009, 130, 137, 210, 241           Fisher         005, 007, 008, 009         Samsung         002, 004, 220           Funai         081, 136, 137         Sansui         081, 136, 243           GE         130, 170, 300         Sanyo         005, 009           Goldstar         006         Scott         001, 002, 004, 009, 081, 136, 230, 241,           Hitachi         000, 125, 300, Instant Replay         Sears         000, 005, 006, 007, 008, 009, 005, 006, 007,           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007, 008, 009, 137         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142
135, 136, 243, 250         210, 241           Fisher         005, 007, 008, 009         Samsung         002, 004, 220           Funai         081, 136, 137         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009           Goldstar         006         Scott         001, 002, 004, 009,           Go Video         220         081, 136, 230, 241,           Hitachi         000, 125, 300,         330, 340           Instant Replay         125, 130,         Sears         000, 005, 006, 007,           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007,         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142
Fisher         005,007,008,009         Samsung         002,004,220           Funai         081,136,137         Sansui         081,136,240           GE         130,170,300         Sanyo         005,009           Goldstar         006         Scott         001,002,004,009,           Go Video         220         081,136,230,241,           Hitachi         000,125,300,         330,340           Instant Replay         125,130,         Sears         000,005,006,007,           JVC         010,011,190,240         Shaintom         050           Kenwood         006,010,011,240         Sharp         200,210           LX1         000,005,006,007,         Signature 2000         137,200           Magnavox         025,130,150         Sony         140,141,142
Funai         081, 136, 137         Sansui         081, 136, 240           GE         130, 170, 300         Sanyo         005, 009           Goldstar         006         Scott         001, 002, 004, 009,           Go Video         220         081, 136, 230, 241,           Hitachi         000, 125, 300,         330, 340           Instant Replay         125, 130,         Sears         000, 005, 006, 007,           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007,         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142
GE         130, 170, 300         Sanyo         005, 009         Goldstar         006         Scott         001, 002, 004, 009,         O05, 009         Goldstar         006         Scott         001, 002, 004, 009,         O05, 009         Goldstar         O01, 002, 004, 009,         O01, 001, 002, 004, 009,         O02, 004, 009,         O01, 001, 002, 004, 009,         O03, 0340         Scott         O01, 002, 004, 009,         Scott         O01, 002, 004, 009,         Scott         O01, 002, 004, 009,         Scott         Scott         Scott         O01, 002, 004, 009,         Scott         Scott
Goldstar         006         Scott         001,002,004,009,           Go Video         220         081,136,230,241,           Hitachi         000,125,300,         330,340           Instant Replay         125,130,         Sears         000,005,006,007,           JVC         010,011,190,240         Shaintom         050           Kenwood         006,010,011,240         Sharp         200,210           LX1         000,005,006,007,         Signature 2000         137,200           Magnavox         025,130,150         Sony         140,141,142
Go Video         220         081, 136, 230, 241, 330, 340           Hitachi         000, 125, 300, Instant Replay         325, 130, 240         330, 340           Jensen         240         008, 008, 010, 011, 190, 240         Sears         000, 005, 006, 007, 008, 009, 137           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007, 008, 009, 137         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142
Hitachi         000, 125, 300,         330, 340           Instant Replay         125, 130,         Sears         000, 005, 006, 007,           Jensen         240         008,         008,           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007,         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142
Instant Replay         125, 130, 240         Sears         000, 005, 006, 007, 008,           JVC         010, 011, 190, 240         Shaintom         050           Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007, 008, 009, 137         Signature 2000         137, 200           Magnavox         025, 130, 150         Sony         140, 141, 142
Jensen         240         008,           JVC         010,011,190,240         Shaintom         050           Kenwood         006,010,011,240         Sharp         200,210           LX1         000,005,006,007, 008,009,137         Signature 2000         137,200           Magnavox         025,130,150         Sony         140,141,142
JVC         010,011,190,240         Shaintom         050           Kenwood         006,010,011,240         Sharp         200,210           LX1         000,005,006,007, 008,009,137         Signature 2000         137,200           Magnavox         025,130,150         Sony         140,141,142
Kenwood         006, 010, 011, 240         Sharp         200, 210           LX1         000, 005, 006, 007, 008, 009, 137         Signature 2000         137, 200           008, 009, 137         Singer         050           Magnavox         025, 130, 150         Sony         140, 141, 142
LXI 000, 005, 006, 007, Signature 2000 137, 200 008, 009, 137 Singer 050 Magnavox 025, 130, 150 Sony 140, 141, 142
008,009,137         Singer         050           Magnavox         025,130,150         Sony         140,141,142
Marantz 010,011,240 SV2000 137
Marta 006 Sylvania 125, 130, 137, 150
Memorex 009, 130 Symphonic 137
MGA 230, 241, 242, 243, Tashiro 006
330, 340 Tatung 010, 011, 240
Minolta 000, 300 Teac 010, 011, 137, 240
Mitsubishi 230, 241, 242, 243, Technics 100, 101, 125, 130
330, 340 Teknika 130, 137
Multitech 004, 137, 330 Toshiba 001, 310
NEC 010, 011, 190, 240 Vector Research 011
Olympic 125, 130 Wards 006, 009, 200, 210,
Optimus 006, 200, 100, 140 290
Orion 081, 136 Yamaha 005, 010, 011, 240
Panasonic 100, 101, 125, 130 Zenith 290
Penney 000, 005, 010, 011,
130, 240, 300

## Cable Box and CD Players Infrared Codes Index (for CT-32S21)

The Universal Infrared Remote Control is capable of operating many brands of Cable Boxes and CD Players. Refer to the Programming the Remote Control section for procedures.

- **Note:** The Universal Remote Control memory is limited; therefore, some models of Cable Boxes and CD Players may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- Note: After entering the proper infrared code, press the Remote CBL Selection Mode button (☆). Then refer to the Remote Control Key Functions section, for Remote CBL function key listing.



	Codeo for C	able Box	
	Codes for C	able box	
Brand of Cable Box	Code(s)	Brand of Cable Box	Code(s)
ABC	530	Philips	006, 007, 540,
Archer	531, 544		541,542
Cableview	005, 544	Pioneer	001,260
Citizen	005, 522	Pulsar	005, 544
Curtis	130, 131	Puser	544
Diamond	530, 531, 544	RCA	170,220
Eagle	541	Realistic	544
Eastern	560	Regal	130, 350, 720,
Gcbrand	005, 544		730, 731, 900
Gemini	522	Regency	560
GeneralInstrument	122, 360, 520, 521,	Rembrandt	005, 544, 702
	522, 530, 531, 532,	Samsung	005
	533	Scientific Atlanta	122, 130, 131
Hamlin	130, 350, 720, 730,	Slmark	001,005
	731,900	Sprucer	005, 121
Hitachi	003, 530	Stargate	005, 544
Jerrold	122, 360, 520, 521,	Teleview	001,005
	522, 530, 531, 532,	Texscan	810
	533	Tocom	700, 701
Macom	003,004,005	Toshiba	004
Memorex	542	Unika	531,544
Movietime	005, 544	Universal	522, 544
Oak	002, 702, 710	Videoway	006
Panasonic	120, 121, 132	Viewstar	541,542
Paragon	281	Zenith	000, 280, 281
		Zenith/DrakeSatellite	000

Note: After entering the proper infrared code, press the Remote CD Selection Mode button (☆☆). Then refer to the Remote Control Key Functions section, for Remote CD Players function key listing.

Codes for CD Players

Brand of	Conta(a)	Brand of	
CD Players	Code(s)	CD Players	Code(s)
Admiral	110	Optimus	030, 057, 059,
Aiwa	162, 164		061
Carver	150, 151	Panasonic	100, 101, 130
Denon	200	Philips	150, 151
Emerson	172	Pioneer	030
Fisher	005	Quasar	100, 101, 130
Garrard	057	RCA	160, 170,
Harman/Kardon	059,060		171,500
Hitachi	007	Sansui	032, 050, 320
Jensen	163	Sanyo	005
JVC	190, 191, 270	Scott	032, 050, 320
Kardon	058	Sharp	200, 201
Kenwood	000, 001, 050, 270	Sherwood	059
LXI	165	Sony	140
Magnavox	150, 161	Soundesigh	220
Marantz	151	Teac	051, 055, 057
McIntosh	060	Technics	100, 101, 130
Nakamichi	032	Victor	190, 191, 270
Onkyo	053,054	Yamaha	002, 003, 004

CD Player
**_CD

## **Cassette Deck, Receivers, and Amplifiers** Infrared Codes Index (for CT-32S21)

The Universal Infrared Remote Control is capable of operating many brands of Cassette Deck, Receivers, or Amplifiers. Refer to the Programming the Remote Control section for procedures.

- Note: The Universal Remote Control memory is limited; therefore, some models of Cassette Deck, Receivers, and Amplifiers may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- Note: After entering the proper infrared code, press the Remote AUX Selection Mode button (\*). Then refer to the Remote Control Key Functions section, for Remote Cassette Deck function key listing.

	Code Index for Cassette Deck			
Cassette Deck	Brand of Cassette Deck	Code(s)	Brand of Cassette Deck	Code(s)
	Aiwa	760, 761, 762	Philips	751
AUN	Denon	800	Pioneer	630
	Fisher	603	RCA	763, 770, 771
	Jensen	657	Sansui	631, 653
4 NA 1	JAC	780, 781	Sharp	800
	Kenwood	600, 650	Sony	740
	Marantz	751	Teac	653, 654
	Nakamichi	631	Technics	700, 701, 730
	Onkyo	651, 652, 656	Yamaha	601, 602
	Panasonic	700, 701, 730		· · · · · · · · · · · · · · · · · · ·

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Note: After entering the proper infrared code, press the Remote RCVR Selection Mode button ( $\times \times$ ). Then refer to the Remote Control Key Functions section, for Remote Receivers/Amplifiers function key listing.

Code Index for Rece		eivers and Amplifiers	
Brand of Receiver / Amplifier	Code(s)	Brand of Receiver / Amplifier	Code(s)
Admiral Aiwa Denon Fisher Garrard Harman Jensen JVC Kenwood Magnavox Marantz McIntosh Nakamichi Onkyo Optimus	110 160, 161 200, 201, 202 004 055 150, 057 164 190, 191 000, 050 162 151 058 031 151, 156 003, 162, 170, 171	Panasonic Philips Pioneer Quasar RCA Sansui Sharp Sony Soundesign Teac Technics Victor Yamaha	100, 101, 130 150 030, 032 100, 101, 130 003, 130, 162, 170, 171 003, 053, 320 200, 203 140 220 053, 054, 055 100, 101, 130 190, 191 001, 002

### Laser Disc, DSS (Digital Satellite System), and DVD (Digital Videodisc) Infrared Codes Index (for CT-32S21)

The Universal Infrared Remote Control is capable of operating selected brands of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc). Refer to the Programming the Remote Control section for procedures.

- Note: The Universal Remote Control memory is limited; therefore, some models of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc) may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- Note: After entering the proper infrared code, press the Remote LD Selection Mode button (◊). Then refer to the Remote Control Key Functions section, for Remote Laser Disc function key listing.



Codes for Laser Disc				
Brand of Laser Disc	Code(s)	Brand of Laser Disc	Code(s)	
Denon Hitachi Kenwood Marantz Mitsubishi NEC Panasonic Philips Pioneer Proscan	370 000 002,003 370 370 370 100,101,135,380 150 370 370	Quasar RCA Samsung Sanyo Sharp Sony Teac Toshiba Yamaha	100, 101, 135, 380 370 160 370 200 140, 141, 142, 143 370 370 001	

Note: After entering the proper infrared code, press the Remote DSS Selection Mode button ( $\diamond \diamond$ ). Then refer to the Remote Control Key Functions section, for Remote DSS function key listing.

DSS	Codes for DSS (Digita	al Satellite System
	Brand of Satellite	Code(s)
	GE	170
	Panasonic	100
	RCA	170
	Sony	390

Note: After entering the proper infrared code, press the Remote AUX Selection Mode button (★). Then refer to the Remote Control Key Functions section, for Remote DVD function key listing.

Digital Videodisc	Codes for DVD (Digital Videodis	
*	Brand of DVD	Code(s)
AUX	Panasonic	102

## **Troubleshooting Chart**

Before you call for service, determine the symptoms and make a few simple checks shown below.

Symptoms		
Picture	Sound	Check
SNOWY PICTURE		- ANTENNA LOCATION AND/OR CONNECTION
	NOISY SOUND	<ul> <li>ANTENNA DIRECTION AND/OR LOCATION</li> <li>ANTENNA LEAD-IN WIRE</li> </ul>
INTERFERENCE		<ul> <li>ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS</li> <li>DIATHERMY AND OTHER MEDICAL EQUIPMENT</li> </ul>
	NO SOUND	<ul> <li>VOLUME CONTROL SETTING</li> <li>MUTE CONTROL (IF APPLICABLE)</li> <li>TRY ANOTHER CHANNEL</li> <li>TV SPEAKERS SWITCH (IF APPLICABLE) IN THE OFF POSITION</li> </ul>
NO VIDEO		- TV OR CABLE TUNING MODE SET TO PROPER SETTING - ANTENNA INPUT CORRECT (IF APPLICABLE)
<b>PICTURE</b>	SOURD SOURD	<ul> <li>CHECK THAT AC POWER LINE IS PLUGGED INTO AC OUTLET</li> <li>BRIGHTNESS &amp; AUDIO CONTROLS SET PROPERLY</li> <li>TRY ANOTHER CHANNEL</li> </ul>
NO COLOR		- COLOR CONTROL SETTINGS - TRY ANOTHER CHANNEL
VIDEO 1 BLACK PICTURE	NO SOUND	- RECEIVER IN VIDEO MODE WITH NO SIGNAL

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