

THE REMOTE CONTROL

In addition to controlling all the functions on your HITACHI LCD Rear PTV, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, set-top-box, satellite receiver, DVD players, and other audio equipment with one touch. Basic operation keys are grouped together in one area. If you prefer to use the AV Network feature, switching remote control modes is not needed.

To operate your TV, point the remote control at the screen of the TV and press the TV button. The TV button will blink, indicating that the remote will now control your television.

To operate your VCR, point the remote at the remote sensor of the VCR and press the VCR button. The VCR button will blink, indicating that the remote will now control your VCR (see page 37 for instructions on how to program the remote to control your VCR).

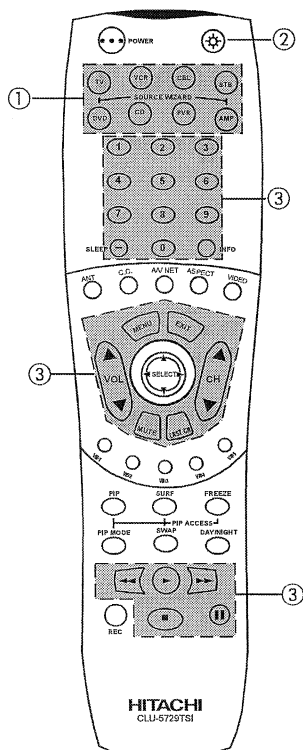
To operate your cable box, point the remote at the remote sensor of the cable box and press the CABLE (CBL) button. The CBL button will blink, indicating that the remote will now control your cable box (see page 38 for instructions on how to program the remote to control your cable box).

To operate your set-top-box or satellite receiver point the remote at the remote sensor of the set-top-box and press the SET-TOP-BOX (STB) button. The STB button will blink, indicating that the remote will now control your set-top-box. If you have a satellite receiver, use this button to program your satellite receiver (see page 39 for instructions on how to program the remote to control your set-top-box).

To operate your DVD player, point the remote at the remote sensor of the DVD player and press the DVD button. The DVD button will blink, indicating that the remote will now control your DVD player (see page 40 for instruction on how to program the remote to control your DVD player).

To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and press the PVR button. The PVR button will blink, indicating that the remote will now control your PVR (see page 41 for instruction on how to program the remote to control your PVR).

To operate additional audio equipment, point the remote at the remote sensor of the component you wish to control and press the CD, PVR or AMP button. This button will blink, indicating that the remote will now control the desired component (see page 42 for instructions on how to program the remote to control additional Audio equipment).



① These buttons allow the remote to control your TV, VCR, cable box, satellite receiver, DVD player, or other Audio equipment depending on which mode is chosen, as explained above.

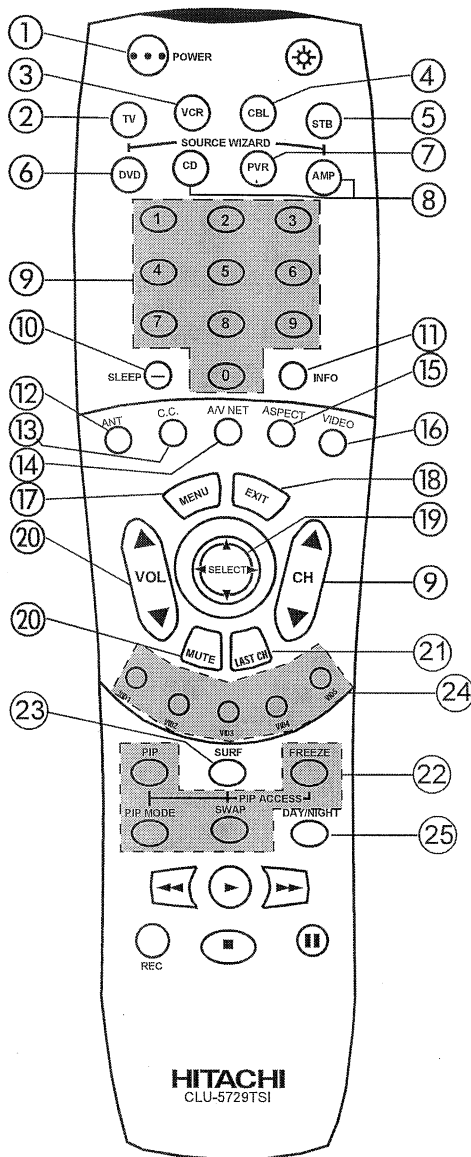
②, ③ LIGHT BUTTON

When you are in a dark room, press the light button ② on the remote to light up the buttons shown in ③ and the source button will blink. The light will stay on for about 8 seconds if any of the buttons are not pressed again. These buttons will not appear to light if the room is too bright.



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- ① **POWER button**
Press this button to turn the TV set on or off when the remote is in TV mode (see page 23 for instructions on how to set the remote control to TV mode).
- ② **TV button**
When the TV button is pressed, it will blink, to indicate the remote is in TV mode.
- ③ **VCR button**
When the VCR button is pressed, it will blink to indicate the remote is in VCR mode (see page 37).
- ④ **CABLE (CBL)**
When the CABLE button is pressed, it will blink to indicate the remote is in CABLE mode (see page 38).
- ⑤ **SET-TOP-BOX (STB)**
When the STB button is pressed, it will blink to indicate the remote is in STB mode (see page 39).
If you have a Satellite receiver, use this button to program your Satellite receiver (see page 39).
- ⑥ **DVD button**
When the DVD button is pressed, it will blink to indicate the remote is in DVD mode (see page 40).

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⑦ PVR (Personal Video Recorder) button

When pressed, this button will blink to indicate the remote is in PVR mode (see page 41).

⑧ CD and AMP buttons

When pressed, each of these buttons will blink to indicate the remote is in Audio mode (see page 42).

⑨ CHANNEL selector buttons

CHANNEL selector buttons are used to select channels, lock access code, etc.

Enter one, two, or three numbers to select channels. Enter "0" first for channels 1 to 9, or simply press the single digit channel you wish to tune then wait a few seconds for the TV to tune. For channels 100 and above, press the "1" button, wait until two dashes appear next to the channel display on your TV, then enter the remaining two numbers using the number buttons.

Channel selection may also be performed by pressing CH up (▲) or down (▼).

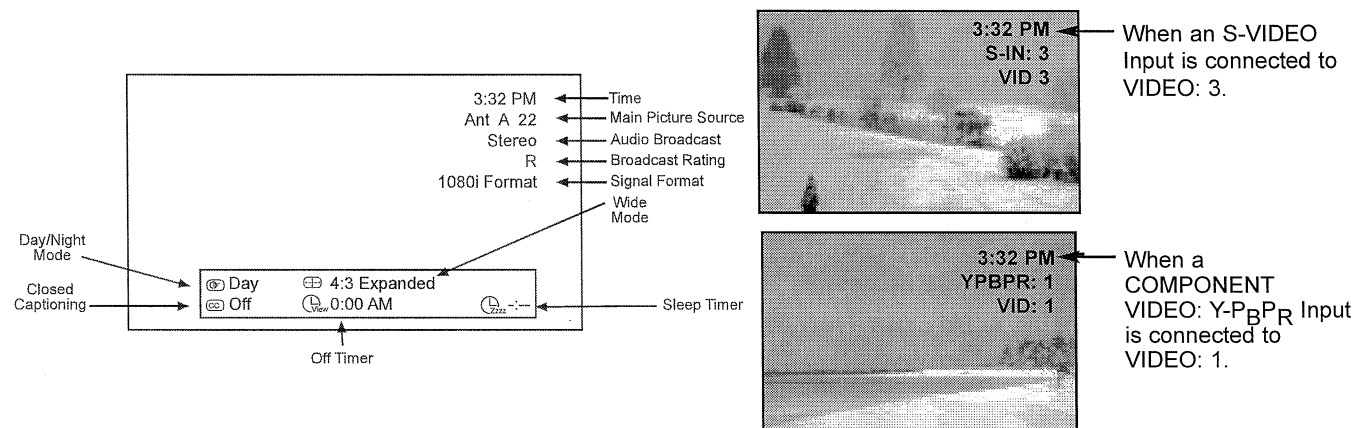
NOTE: The TV may not receive some channels if you are not in the correct Antenna/Cable mode (see page 54).

⑩ SLEEP and (-) DASH button

Press this button to display the sleep timer in the lower left corner of the screen. Every subsequent press of this button will add 15 minutes to this timer, up to a maximum of three hours. Once set, use INFO when you want to view time remaining. If the SLEEP button is pressed while the timer is set, it will reset to the original condition. The DASH (-) button can only be used when the remote control is in Set-Top-Box (STB) mode.

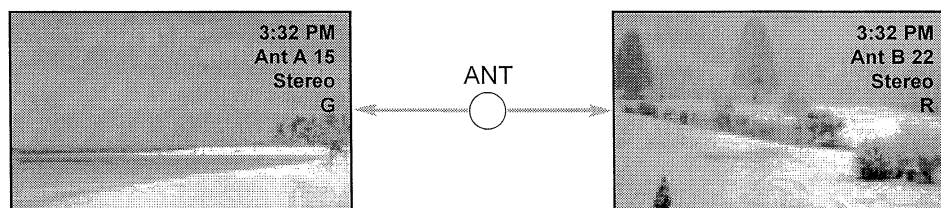
⑪ INFO button

Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID and if the SLEEP timer is set.



⑫ ANTENNA button

The ANT button will select between Antenna A and Antenna B each time the button is pressed.



⑬ C.C. button

Press this button to quickly turn the Closed Caption feature on, off and auto. You can also access this feature on the Setup menu (see page 68).

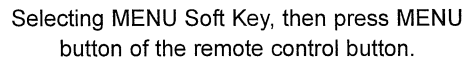


Press this button to access the Audio/Video network (AV Net) menu. The AV Net allows the user to control external components with the LCD Rear PTV's remote control. When you press the AV NET button, the following window will pop up within the Display Monitor screen. The window will disappear after 30 seconds if you don't press any buttons.

THUMBSTICK ▲ or ▼ to highlight the equipment you wish to control or setup and then press THUMBSTICK ►.

Customize your Audio/Video equipment list and soft keys by selecting the “Custom” icon and following the instructions of the AV NET learning wizard (see page 30).

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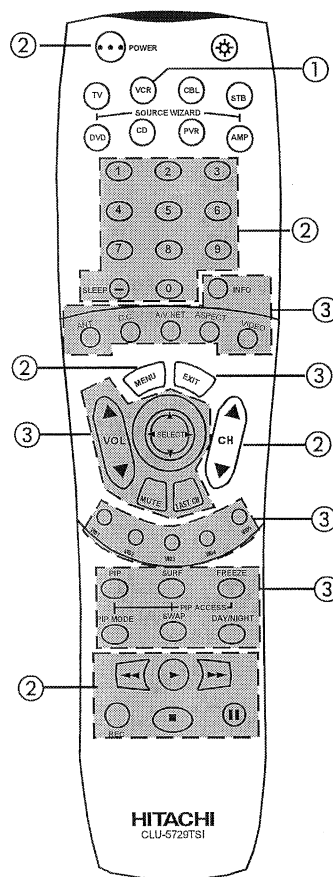


NOTE: To access the cursor function of a specific equipment (Ex. DVD, VCR), select the “MENU” soft key on OSD, and press the MENU button of the LCD Rear PTV’s remote control. Then THUMBSTICK and EXIT button of the LCD Rear PTV’s remote control is available to control the cursor of the equipment.

This remote is designed to operate different types of VCRs. You must first program the remote to match the remote system of your VCR (refer to page 43 for pre-codes).

1. Turn ON your VCR.
2. Aim the remote control at the front of your VCR.
3. Press and release the VCR button to switch to VCR pre-coded mode.
4. Hold down the VCR button on the remote and enter the two digit preset code that matches your VCR, as shown on page 43. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the VCR and press the POWER button. The remote will turn off your VCR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your VCR. If the VCR does not turn off, try a different two digit preset code.
6. The remote will now control your VCR.

1. If your VCR cannot be operated after performing the above procedures, your VCR's code has not been precoded into the remote.
2. In the unlikely event that your VCR cannot be operated after performing the above procedures, please consult your VCR operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
4. The MENU button will act as the VCR MENU button for HITACHI VCRs.
5. The LAST CH button will act as your VCR ENTER button if required.
6. The SLEEP button will act as your VCR '100' button if required.



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- ① **VCR Button**
This button allows the remote to control your VCR by setting it to VCR mode.
- ② **PRECODED VCR Buttons**
These buttons transmit the chosen precoded VCR codes. For some VCRs, you must press the RECORD button twice to record a program.
- ③ **EXCLUSIVE TV Buttons**
These buttons are for operating the TV.

MY VCR CODE IS: _____

NOTE: Refer to instruction manual of the VCR for operation of the buttons exclusively for the VCR.



USING THE REMOTE TO CONTROL CABLE BOX FUNCTIONS

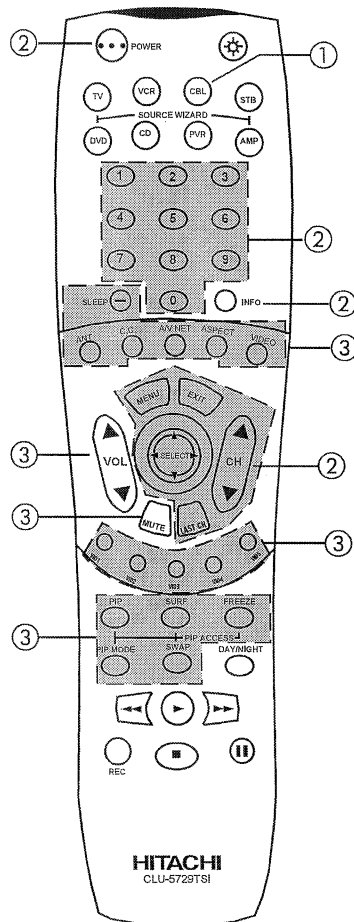
Operating the precoded function for your cable box.

This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box (refer to page 43).

1. Turn ON your cable box.
2. Aim the remote control at the front of your cable box.
3. Press and release the Cable (CBL) button to switch to Cable pre-coded mode.
4. Hold down the CBL button on the remote and enter the two digit preset code that matches your cable box as shown on page 43. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the cable box and press the POWER button. The remote will turn off your cable box when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your cable box. If the cable box does not turn off, try a different two digit preset code.
6. The remote will now control your Cable box.

NOTES:

1. If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote.
2. In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
4. The LAST CH button will act as the cable box ENTER button if required.
5. The SLEEP button will act as your cable box '100' button if required.
6. The ANT button will act as the TV/STB button when in STB mode.



- ① **CABLE (CBL) button**
This button allows the remote to control your cable box by setting it to CABLE mode.
- ② **PRECODED CABLE BOX buttons**
These buttons transmit the chosen precoded cable codes.
- ③ **EXCLUSIVE TV buttons**
These buttons are for operating the TV.

MY CABLE BOX CODE IS: _____

NOTE: Refer to instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box.

USING THE REMOTE TO CONTROL SET-TOP-BOX/SATELLITE RECEIVER FUNCTIONS



Operating the precoded function for your set-top-box/satellite receiver.

This remote is designed to operate different types of set-top-box/satellite systems. You must first program the remote to match the remote system of your set-top-box/satellite systems (refer to page 43).

1. Turn ON your set-top-box/satellite systems.
2. Aim the remote control at the front of your set-top-box/satellite systems.
3. Press and release the SET-TOP-BOX (STB) button to switch to set-top-box/satellite pre-coded mode.
4. Hold down the STB button on the remote and enter the two digit preset code that matches your set-top-box/satellite receiver as shown on page 43. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the set-top-box/satellite receiver and press the POWER button. The remote will turn off your set-top-box/satellite receiver when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your set-top-box/satellite receiver. If the set-top-box/satellite receiver does not turn off, try a different two digit preset code.
6. The remote will now control your set-top-box/satellite receiver.

NOTES:

1. If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-top-box/satellite receiver code has not been precoded into the remote.
2. In the unlikely event that your set-top-box/satellite receiver cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
4. The ANT button will act as the TV/STB button when in STB mode.

① SET-TOP-BOX (STB) button

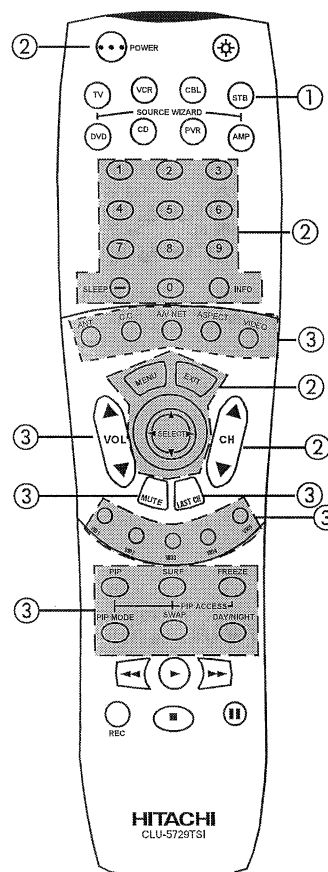
This button allows the remote to control your satellite receiver by setting it to SET-TOP-BOX/SATELLITE mode.

② PRECODED SET-TOP-BOX/SATELLITE RECEIVER buttons

These buttons transmit the chosen precoded set-top-box/satellite codes.

③ EXCLUSIVE TV buttons

These buttons are for operating the TV.



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MY SATELLITE RECEIVER/STB CODE IS: _____

NOTE: Refer to instruction manual of the set-top-box/satellite receiver for operation of the buttons exclusively for the set-top-box/satellite receiver.



USING THE REMOTE TO CONTROL DVD FUNCTIONS

Operating the precoded function for your DVD player.

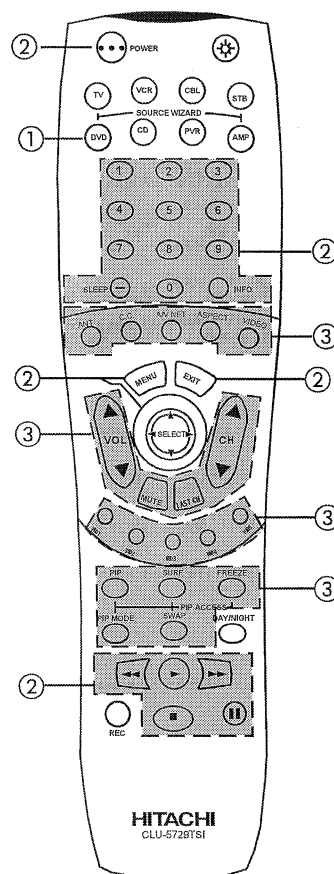
This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer to page 43 for pre-codes).

1. Turn ON your DVD player.
2. Aim the remote control at the front of your DVD player.
3. Press and release the DVD button to switch to DVD pre-coded mode.
4. Hold down the DVD button on the remote and enter the two digit preset code that matches your DVD player, as shown on page 43. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different two digit preset code.
6. The remote will now control your DVD player.
7. You will need to set the display type of your DVD player to 16:9 widescreen.

NOTES:

1. If your DVD player cannot be operated after performing the above procedures, your DVD player's code has not been precoded into the remote.
2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

- ① **DVD Button**
This button allows the remote to control your DVD player by setting it to DVD mode.
- ② **PRECODED DVD Buttons**
These buttons transmit the chosen precoded DVD codes.
- ③ **EXCLUSIVE TV Buttons**
These buttons are for operating the TV.



MY DVD PLAYER CODE IS: _____

NOTE: Refer to instruction manual of the DVD player for operation of the buttons exclusively for the DVD player.



USING THE REMOTE TO CONTROL PVR FUNCTIONS

Operating the precoded function for your PVR (Personal Video Recorder).

This remote is designed to operate different types of PVRs. You must first program the remote to match the remote system of your PVR (refer to page 43 for pre-codes).

1. Turn ON your PVR.
2. Aim the remote control at the front of your PVR.
3. Press and release the PVR button to switch to PVR pre-coded mode.
4. Hold down the PVR button on the remote and enter the two digit preset code that matches your PVR, as shown on page 43. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the PVR and press the POWER button. The remote will turn off your PVR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your PVR. If the PVR does not turn off, try a different two digit preset code.
6. The remote will now control your PVR.

NOTES:

1. If your PVR cannot be operated after performing the above procedures, your PVR's code has not been precoded into the remote.
2. In the unlikely event that your PVR cannot be operated after performing the above procedures, please consult your PVR operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

① PVR Button

This button allows the remote to control your PVR by setting it to PVR mode.

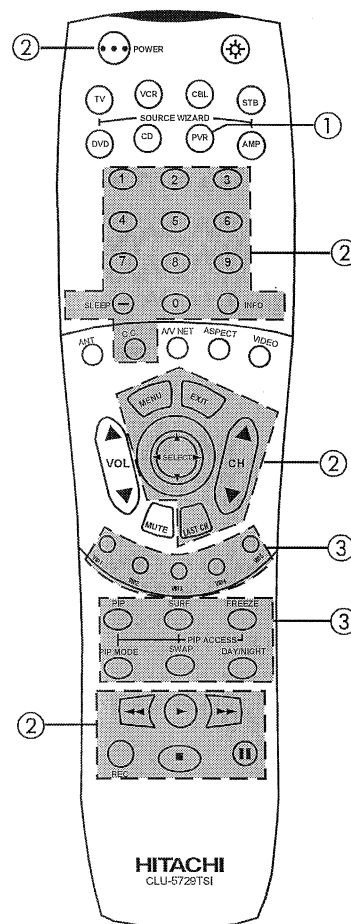
② PRECODED PVR Buttons

These buttons transmit the chosen precoded PVR codes.

NOTE: The C.C. button functions as "replay".

③ EXCLUSIVE TV Buttons

These buttons are for operating the TV.



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MY PVR CODE IS: _____

NOTE: Refer to instruction manual of the PVR for operation of the buttons exclusively for the PVR.



USING YOUR REMOTE TO CONTROL ADDITIONAL AUDIO EQUIPMENT

Operating the precoded function for your Audio component.

This remote is designed to operate different types of Audio component. You must first program the remote to match the remote system of your Audio component (refer to page 43 for pre-codes).

1. Turn ON your Audio component you wish to control with the Remote.
2. Aim the remote control at the front of your Audio component.
3. Press and release the CD or AMP button (Audio buttons) to switch to Audio component pre-coded mode.
4. Hold down the CD or AMP button on the remote and enter the two digit preset code that matches your Audio component, as shown on page 43. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the Audio component and press the POWER button. The remote will turn off your Audio component when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your Audio component. If the Audio component does not turn off, try a different two digit preset code.
6. The remote will now control your Audio component.
7. Repeat steps 1 - 6 if you wish to program the remote to control another Audio component. Be sure to use a different Audio button on the remote, since only one component can be programmed per button.

NOTES:

1. If your Audio component cannot be operated after performing the above procedures, your Audio component's code has not been precoded into the remote.
2. In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio equipment operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

① CD and AMP Buttons

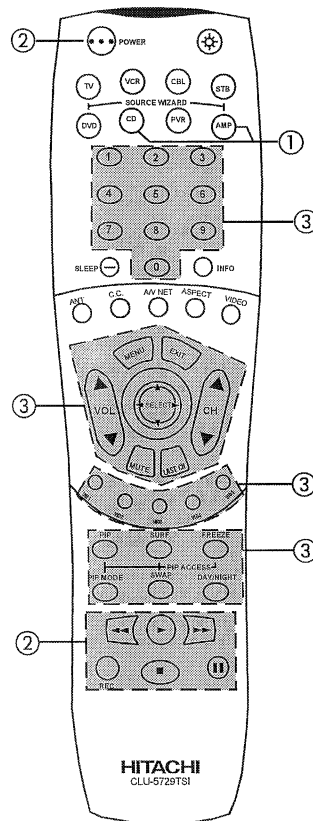
These buttons allow the remote to control your Audio equipment by setting it to Audio mode.

② PRECODED AUDIO Buttons

These buttons transmit the chosen precoded Audio component codes.

③ EXCLUSIVE TV Buttons

These buttons are for operating the TV.



MY AUDIO EQUIPMENT CODE IS:

CD _____
AMP/RCVR _____

- NOTES:**
1. The REC (Record) button is only precoded to your amplifier/receiver.
 2. Refer to instruction manual of the Audio equipment for operation of the buttons exclusively for the Audio equipment.

VCR, CABLE, SATELLITE, DVD and AUDIO CODES FOR REMOTE CONTROL



VCR BRAND..... CODE

Adventura	01
Aiko	09
Aiwa	01
Akal	02, 47, 48
American High	23
Asha	44
Audiovox	24
Beaumont	44
Bell & Howell	32
Broksonic	33, 34, 41
Calix	24
Canon	23
Carver	31
CCE	09
Citizen	09, 24
Craig	19, 24, 44
Curtis Mathes	02, 23, 46
Cybermex	44
Daewoo	09, 17
Dynatech	01
Electrohome	24
Electrophonic	24
Emerex	08
Emerson	01, 09, 13, 16, 24, 27
Fisher	28, 33, 34, 36, 41, 47
Fuji	19, 21, 32
Funai	10, 23
Funai	01
Garrard	01
GE	04, 23, 40, 46
Goldstar	24, 25, 43
Gradiente	01
Harley Davidson	01
Harmon/Kardon	25
Headquarter	18
Hi-Q	19
Hitachi	01, 02, 03, 04, 05
Jensen	02
JVC	02, 14, 26
KEC	09, 24
Kenwood	02, 25, 26
KLH	30
Kodak	23, 24
Lloyd	01
Lloyd's	27
LXI	24
Magnavox	15, 23, 31, 35
Magnin	44
Marantz	23, 31
Marta	24
Matsushita	23
MEI	23
Memorex	01, 15, 18, 19
NEC	20, 23, 24, 32, 44
MGA	16, 47
MGN Technology	44
Minolta	03, 05
Mitsubishi	16, 26, 39, 47, 48
Motorola	20, 23
MTC	01, 44
Multitech	01
NEC	02, 25, 26, 32
Nikko	24
Noblex	44
Olympus	12, 23
Optimus	20, 24, 32
Panasonic	11, 12, 23, 38
Penney	03, 23, 24, 25, 44
Pentax	03, 04, 05
Philco	23
Phillips	23, 31
Pilot	24
Pioneer	26
Pulsar	15

Quarter	18
Quartz	18
Quasar	23
Radio Shack	01, 24
Radix	24
Randex	24
RCA	03, 04, 05, 35, 40, 46
Realistic	01, 18, 19, 20, 21, 23, 24, 32, 44
Ricoh	22
Runco	15
Samsung	17, 44
Sanky	15, 20
Sansui	02, 26
Sanyo	18, 19, 32, 44
Scott	16, 17, 33, 34, 36, 41
Sears	03, 05, 18, 19, 21, 23, 24, 32
Sharp	20
Shintom	30
Shogun	44
Sony	08, 10, 22, 23
STS	03
Sylvania	01, 16, 23, 31
Symphonic	01
Tatung	02
Teac	01, 02
Technics	23, 38
Teknika	01, 23, 24
TMK	27, 44
Toshiba	16, 17, 21, 36
Totvision	24, 44
Unitech	44
Vector	17
Vector Research	25
Video Concepts	17, 47
Videosonic	44
Wards	01, 03, 19, 20, 23, 35, 36, 44, 46
XR-1000	01, 23
Yamaha	25
Zenith	10, 15, 22

DVD BRAND..... CODE

APEX	15
Denon	04
Go Video	14
Hitachi	07, 12, 13
JVC	01
Kenwood	04, 16
Magnavox	05
Mitsubishi	10
Panasonic	04
Phillips	06
Pioneer	03
RCA (Proscan)	09, 17
Samsung	12
Sanyo	13
Sony	02
Toshiba	05
Yamaha	08
Zenith	05, 11

CABLE BRAND..... CODE

ABC	01, 07, 08, 17, 18, 20, 36, 37, 49
Antronix	39
Archer	11, 24, 39
Belcor	32
Cable Star	32
Century	11
Citizen	11
Colour Voice	30, 42
Comtronics	25, 28
Contec	21

Dae Ryung	20
Eastern	14
Electricord	31
Everquest	51
Focus	52
Garrard	11
GC Electronics	32, 39
Gemini	05, 38, 43, 51
General Instrument	01, 12
Goldstar	10, 25
Hamlin	04, 13, 22, 23
Hitachi	01
Hytex	36
Jasco	11
Jerrold	01, 08, 12, 37, 49, 50, 51
Macom	35
Magnavox	15
Memorex	03
Movie Time	29, 31, 33
NSC	29, 33, 38
Oak	21, 36, 46
Panasonic	02, 03, 09
Paragon	03
Phillips	11, 15, 16, 26, 30, 42, 43, 44
Pioneer	06, 10, 19, 55
Popular Mechanics	52
Pulsar	03
RCA	02
Realistic	39
Recoton	52
Regal	04, 22, 34
Regency	14
Rembrandt	01, 38
Runco	03
Samsung	10, 25
Scientific Atlanta	17, 20, 41, 45, 55
Signal	25, 51
Signature	01
SL Marx	25
Sprucer	02
Starcom	37, 49, 51
Stargate	25, 51
Starquest	51
Starsight	53, 54
Sylvania	18
Televue	25
Texscan	18
Tocom	07, 27, 50
Toshiba	03
Tusa	51
TV 86	29
Unika	11, 39
United Artists	36
United Cable	49
Universal	11, 24, 31, 32, 34, 39
Videoway	47
Viewstar	15, 28, 29, 40
Zenith	03, 48
Zentek	52

SATELLITE BRAND..... CODE

Echostar	04
Hitachi	01
Hughes	05
RCA	02
Sony	03

SET-TOP-BOX..... CODE

Panasonic	06
RCA	07
Samsung	08
Zenith	09

AMPLIFIER BRAND..... CODE

Aiwa	05, 06
Carver	01, 06, 08
Denon	10
Fisher	08, 11
Hitachi	12
JVC	13
Kenwood	14, 15, 17, 18
Magnavox	01, 06
Marantz	01, 06, 16
MCS	16
Optimus	03, 04, 11, 15, 20
Panasonic	16
Philips	01, 06
Pioneer	03, 04, 20, 21, 22
Quasar	16
Sansui	06
Sanyo	11
Sharp	15
Sony	05
Technics	02, 16, 23, 24, 25
Victor	13
Wards	03, 05, 06, 08, 20, 21
Yamaha	15, 26

CD BRAND..... CODE

Adcom	01
Aiwa	02
California Audio Lab	03
Carver	02
Denon	04
DKK	05
Emerson	01
Fisher	06
Genexxa	07
Hitachi	01, 07, 08, 09, 10, 11, 12
JVC	13
Kenwood	06, 14, 15
Krell	02
Magnavox	02
Marantz	02, 03
MCS	03
Mission	03
NSM	02
Onkyo	16
Optimus	05, 07, 17
Panasonic	03
Philips	02
Pioneer	07, 17
Proton	02
QED	02
Quasar	03
RCA	01, 21
Realistic	01
Rotel	02
SAE	02
Sansui	02
Scott	01
Sony	05, 18
Technics	03, 19, 20
Victor	13

PERSONAL VIDEO

RECORDER BRAND..... CODE

Tivo	01
Replay	02