

CONNECTING AV NETWORK

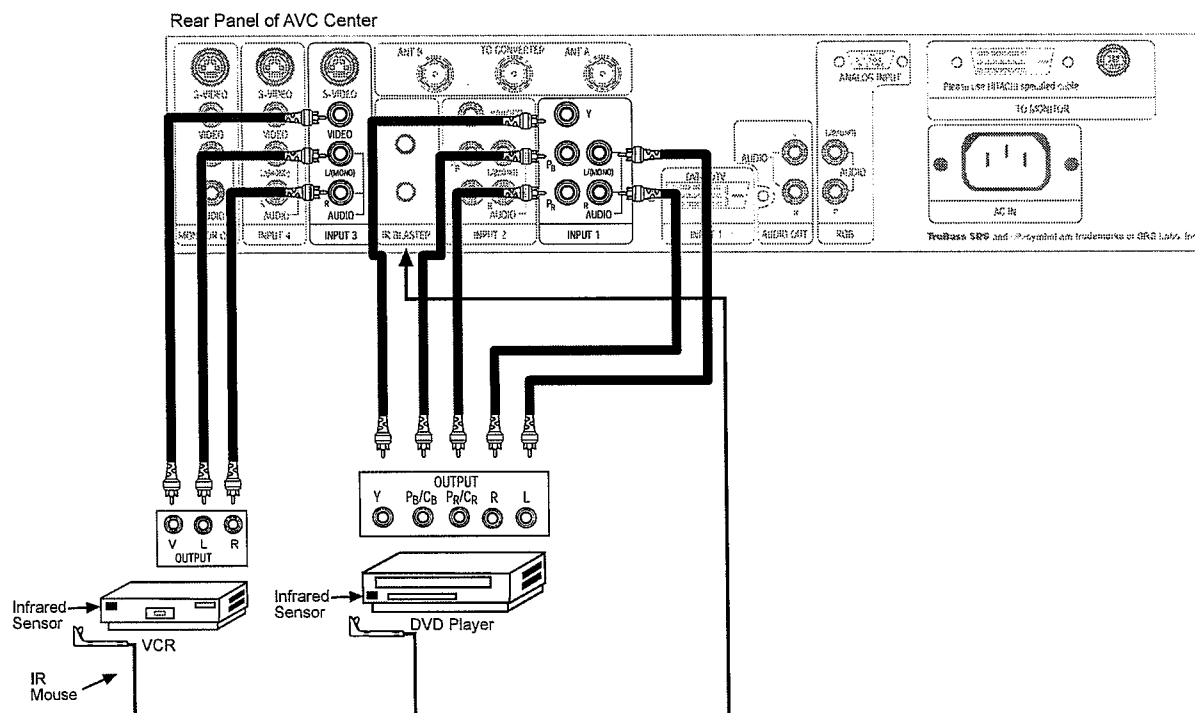
FIRST TIME USE

Your Hitachi Plasma Television is equipped with an AV Network feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Mouse connector to control your equipment using your Hitachi Plasma TV Remote Control. You can use your Hitachi remote control to control the Audio/Video equipment command without the equipment's remote control.

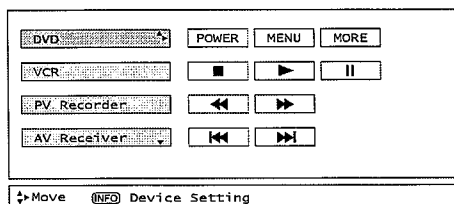
The Plasma Television AVC Center has 2 IR BLASTER jacks. Each IR Mouse cable can connect up to 2 external Audio/Video components. Therefore, you can connect the Plasma Television with up to four components. Please see the following example of an AV Network setup between your Hitachi Plasma Television and external Audio/Video equipment (VCR and DVD Player).

CONNECTING EXTERNAL AUDIO/VIDEO COMPONENTS TO IR BLASTER FOR AV NETWORK

1. Connect your external Audio/Video components to the AVC Center shown on pages 13~18.
2. Connect the IR Mouse cable to the IR BLASTER output of the AVC Center.
3. Place the IR mouse in front of the infrared sensor of the external components you wish to control.



4. Press the AV NET button on the remote control. Use THUMB STICK ▲ or ▼ to highlight the component you wish to set up. Use THUMB STICK ► to enter component's "SOFT KEY" control button. The AV Network Setup Wizard will automatically start upon the very first use. You can access the Setup Menu Wizard again in the future by pressing the AV net button and then pressing the INFO button.



- NOTES:**
1. The AVC Center has two IR BLASTER outputs which can control up to a total of four external components.
 2. The IR Mouse must be placed in front of the external components infrared sensor for the AV Network to work.
 3. The correct codes must be entered for each of the Audio/Video components for the AV Network to function properly.
 4. Audio/Video component codes for AV network are on page 21.

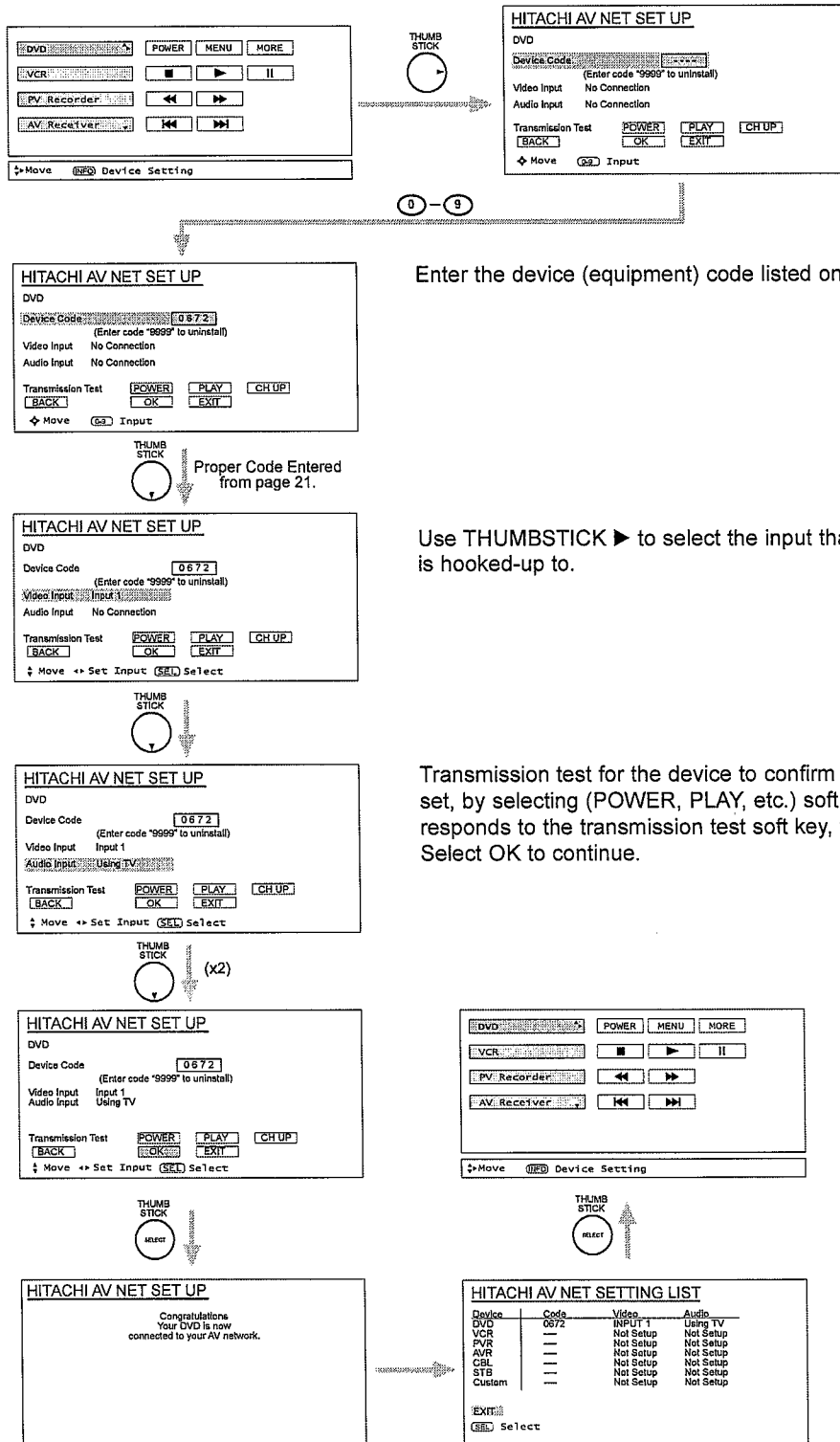


AV NETWORK SETUP WIZARD

FIRST TIME USE

5. Follow the steps below to setup your AV network (See page 21 for AV Network Codes).

There are six steps in the setup procedure (DVD setup example below).



Enter the device (equipment) code listed on page 21.

Use THUMBSTICK ► to select the input that the device (equipment) is hooked-up to.

Transmission test for the device to confirm that the proper code was set, by selecting (POWER, PLAY, etc.) soft keys shown. If the device responds to the transmission test soft key, then it is properly set up. Select OK to continue.

- To uninstall or change device (equipment), press INFO button on the remote control when the device (DVD, VCR, etc.) is highlighted.
- See Remote Control AV NET button usage on pages 27 and 28.

AUDIO/VIDEO CODES FOR AV NETWORK (not for remote control)



VCR BRAND	CODE
Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0000, 0037
Akai	0041
America Action	0278
American High	0035
Asha	0240
Audiovox	0037, 0278
Beaumont	0240
Bell & Howell	0104
Broksonic	0121, 0184, 0002, 0209, 0479, 1479, 0278
CCE	0072, 0278
Calix	0037
Canon	0035
Carver	0081
Cineral	0278
Citizen	0278, 0037, 1278
Colt	0072
Craig	0037, 0072, 0047, 0240
Curtis Mathes	0035, 0041, 0060, 0162, 0760, 0035
Cybermax	0240
Daewoo	0278, 1278, 0045
Danon	0042
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	0184, 0002, 0209, 0121, 0000, 0037, 0043
Fisher	0104, 0047
Fuji	0033, 0035
Funai	0000
GE	0035, 0060, 0240, 0760, 0807, 1035, 1060
Garrard	0000
Go Video	0432
GoldStar	0037, 0038, 1237
Gradiente	0000
Hi-Q	0047
Harley Davidson	0000
Harman/Kardon	0038, 0081
Harwood	0072
Hitachi	0000, 0041, 0042
Hughes Network Systems	0042
JVC	0067, 0041
Jensen	0041
KEC	0037, 0278
KLH	0072
Kenwood	0041, 0067, 0038
Kodak	0035, 0037
LXI	0037
Lloyd's	0000
Logik	0072
MEI	0035
MGA	0043, 0240
MGN Technology	0240
MTC	0000, 0240
Magnasonic	1278
Magnavox	0035, 0081, 0563, 0000, 0039, 0149, 1781
Magnin	0240
Marantz	0081, 0035
Marta	0037
Matsushita	0035, 0162, 0454
Memorex	0047, 0037, 0104, 0209, 0044, 0048, 0039, 0240, 0000, 0479, 1037, 1162, 1237, 1262
Minolta	0042
Mitsubishi	0807, 0043, 0087
Motorola	0035, 0048
Multitech	0000, 0072
NEC	0038, 0041, 0067, 0104
Nikko	0037
Noblex	0240
Olympus	0035
Optimus	1062, 0162, 0037, 0048, 0104, 0432, 0454, 1048, 1162, 1262
Orion	0184, 0209, 0002, 0479, 1479
Panasonic	1062, 0035, 01625, 0225, 0454, 0616, 1035, 1162, 1262
Pennney	0035, 0037, 0240, 0042, 0038, 1035, 1237
Pentax	0042
Philco	0035, 0209, 0479
Phillips	0081, 0035, 0618, 1081, 1181
Pilot	0037
Pioneer	0087
Polk Audio	0081
Proflon	0240
Proscan	0060, 0760, 1060
Protec	0072
Pulsar	0039
Quasar	0035, 0162, 0454, 1035, 1162
RCA	0060, 0240, 0042, 0149, 0760, 0807, 1035, 1060
Radio Shack	0000, 1037
Radix	0037
Randex	0037
Realistic	0035, 0037, 0048, 0047, 0000, 0104
ReplayTV	0614, 0616
Runco	0039
STS	0042
Samsung	0045, 0240
Sanky	0039, 0048
Sansui	0000, 0067, 0209, 0041, 0479, 1479
Sanyo	0047, 0240, 0104
Scott	0184, 0045, 0121, 0043
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0045
Semp	0048, 0807, 0848
Sharp	0072
Shinon	0072

Shogun	0240
Singer	0072
Sonic Blue	0614, 0616
Sony	0035, 0032, 0000, 0033, 0636, 1032, 1232
Sylvania	0035, 0081, 0000, 0043, 1781
Symphonic	0000
TMK	0240
Tatung	0041
Teac	0000, 0041
Technics	0000, 0035, 0162
Teknika	0000, 0035, 0037
Thomas	0000
Tivo	0618, 0636
Toshiba	0045, 0043, 845
Totevision	0037, 0240
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045
Videomagic	0037
Videosec	0240
Wards	0060, 0035, 0048, 0047
Wards	0081, 0240, 0000, 0042, 0149, 0760
White Westinghouse	0072, 1278, 0209
XR-1000	0072, 0000, 0035
Yamaha	0038
Zenith	0039, 0000, 0209, 0033, 0479, 1479, 0033, 0034, 0209, 0479

DVD BRAND	CODE
Aiwa	0641
Apex	0672, 0717, 0755, 0794, 0795, 0796, 0797, 0830
Audiologic	0736
B & K	0655, 0662
Blue Parade	0571
Broksonic	0695
DVD2000	0521
Daewoo	0784
Denon	0490, 0634
Emerson	0581
Enterprise	0591
Fisher	0670
GE	0522, 0717, 0815
GPX	0699, 0769
Go Video	0715
Gradiente	0651
Greenhill	0717
Harman/Kardon	0582, 0702
Hitachi	0573, 0664
Hiteker	0672
JBL	0702
JVC	0623, 0558, 0867
KLH	0717
Kenwood	0490, 0534, 0682
Konka	0711, 0719, 0721
Koss	0651
Lasonic	0798
Magnavox	0503, 0675
Malata	0782
Marantz	0539
Microsoft	0522
Mintek	0717
Mitsubishi	0521
Nesa	0717
Onkyo	0627, 0503
Orion	0651
Panasonic	0490, 1362, 0632
Philips	0503, 0539, 0646, 0854
Pioneer	0525, 0571, 0632
Polk Audio	0539
Princeton	0674
Proscan	0522
RCA	0522, 0571, 1022, 0717
Samsung	0573, 0820
Sansui	0695
Sanyo	0670
Sharp	0630
Sherwood	0633
Sony	0533
Sylvania	0675
Technics	0490
Techwood	0692
Theta Digital	0571
Toshiba	0503, 0695
Urban Concepts	0503
Yamaha	0490, 0545, 0539
Zenith	0591, 0503

CABLE BRAND	CODE
ABC	0003, 0008, 0014, 0017
Americast	0899
Bell & Howell	0014
Bell South	0899
Director	0476
General Instrument	0003, 0476, 0276, 0810
GoldStar	0144
Hamlin	0009, 0273
Jerrold	0476, 0003, 0276, 0012, 0014, 0810
Memorex	0000
Motorola	0476, 1106, 0276, 0810
Pace	0237
Panasonic	0107, 0000
Philips	0305, 0317
Pioneer	0144, 0533, 0877, 1877
Pulsar	0000
Quasar	0000
Regal	0273, 0279
Runco	0000
Samsung	0144
Scientific Atlanta	0877, 0008, 0017, 0477, 1877
Sony	1006
Starcom	0003

Supercable	0276
Tocom	0012
Torx	0003
Toshiba	0000
Zenith	0000, 0525, 0899

SATELLITE BRAND (Set-Top-Box)	CODE
AlphaStar	0772
Chapparral	0215
Crossdigital	1109
DishPro	1005, 0775
EchoStar	1005, 0775
Expressvu	0775
GE	0566
GOI	0775
General Instrument	0869
HTS	0775
Hitachi	0819
Hughes Network Systems	1142, 0749, 1749
JVC	0775
Magnavox	0724, 0722
Memorex	0724
Mitsubishi	0749
Motorola	0869
Next Level	0869
Panasonic	0247, 0701
Paysat	0724
Philips	1142, 0749, 0724, 1076, 0722, 1749
Proscan	0392
RCA	0392, 0566, 0855, 0143
Radioshack	0869
SKY	0856
Samsung	1109
Sony	0639
Star Choice	0869
Toshiba	0749, 0790, 1749
Uniden	0724, 0722
Zenith	0856, 1856

AMPLIFIER BRAND	CODE
Aiwa	0406
Bose	0674
Carver	0300
Curtis Mathes	0300
Denon	0160
GE	0078
Harman/Kardon	0892
JVC	0331
Left Coast	0892
Linn	0269
Luxman	0165
Magnavox	0269
Marantz	0269, 0321, 0892
NEC	0264
Nakamichi	0321
Optimus	0395, 0300
Panasonic	0308, 0521
Parasound	0246
Philips	0269, 0892
Pioneer	0013, 0300
Polk Audio	0269, 0892
RCA	0300
Realistic	0395
Sansui	0321
Shure	0264
Sony	0689, 0220
Soundesign	0078, 0211
Technics	0308, 0521
Victor	0331
Wards	0013, 0078, 0211
Yamaha	0354, 0133

RECEIVER BRAND (Amplifier)	CODE
ADC	0531
Adcom	0616
Aiwa	1089, 1405, 0121, 0158, 0189, 0405, 1321, 1388
Akai	0076, 0224
Alco	1390
Anam	1074, 1609
Apex Digital	1257
Arcam	1120
Audiotronic	1189
Audiovox	1390
Bose	1229
Capetronic	0531
Carver	1089, 1189, 0008, 0042, 0189, 0350
Casio	0195
Celestion	1264
Clarinet	0195
Compad	1136
Curtis Mathes	0080
Denon	1104, 0004, 0273, 0771, 1311, 1360
Emerson	0424
Fisher	0042, 0219, 0360
GPX	1299
Garrard	0424, 0463
Glory Horse	1263
Harman/Kardon	0891, 0110, 0189
Hewlett Packard	1181
Inkel	0062
JBL	0110, 1306
JVC	0074, 1263, 1374
Kenwood	1313, 1027, 1570, 1569, 0027, 0042, 0077, 0186, 0313, 0314, 0569, 1051, 1052
Koss	0424, 1366
LXI	0181
Lexicon	1076
Linn	0189
Lloyd's	0195
MCS	0039, 0346
Magnavox	1089, 1189, 0128, 0189, 0195, 0391, 0531

Marantz	1089, 1189, 0039, 0128, 0189
Modulaire	0195
Musicmagic	1089
NAD	0320
NEC	0235
Nakamichi	0097, 0347
Onkyo	0100, 0135, 0380, 0842, 1298
Optimus	1023, 0042, 0080, 0177, 0181, 0186, 0219, 0531, 0670, 0738, 0801, 1074
Panasonic	1518, 0039, 0309, 0367, 0518, 1288, 1350
Pennney	0195
Philips	1089, 1189, 1269, 0189, 0391, 1120, 1268, 1283
Pioneer	1023, 0014, 0080, 0150, 0244, 0531, 0630, 1343, 1384
Polk Audio	0189
Proscan	1254
Quasar	0039
RCA	1023, 1254, 0054, 0080, 0346, 0360, 0530, 0531, 1074, 1154, 1390, 1609
Radio Shack	1263
Realistic	0163, 0181, 1295
Samsung	0346
Sansui	0189, 1089, 0193, 0346
Sanyo	0219, 0801, 1251
Scott	0163, 0322
Sharp	0186
Sherwood	0062, 0491, 0502, 1653
Sony	1058, 1258, 1158, 0158, 0168, 0474, 1042, 1458, 1758
Soundesign	0670
Stereophonics	1023
Sunfire	1313, 0313, 0314, 1052
Teac	0463, 0163, 1074
Technics	1308, 1309, 1518, 0039, 0208, 0309, 0518
Thorens	1189
Victor	0074
Wards	0014, 0054, 0080, 0158, 0189
Yamaha	0176, 0186, 1176
York	0195
Zenith	0857

AUDIO BRAND	CODE
Aiwa	0010, 0159
AudioSource	0351
Cambridge Soundworks	0351
Carver	0351
Fisher	0052
Fosgate	0259
Harman/Kardon	0477
JBL	0477
JVC	0073
KLH	0351
Magnavox	0325
Nikko	0376
Paramount Pictures	0317, 0351
RCA	0056
SSI	0317
Sansui	0325
Schneider	0376
Sony	0010, 0576
Soundesign	0376
York	0376

SET TOP BOX BRAND	CODE
Panasonic	1120
Pioneer	1010
Princeton	0113, 0295
Samsung	1190
Sensory Science	1126
Sharp	1010
Sony	0639

PERSONAL VIDEO RECORDER BRAND	CODE
Panasonic	0616
Philips	0618
ReplayTV	0614, 0616
SonicBlue	0614, 0616
Sony	0636
Tivo	0618, 0636

FIRST TIME USE

REMOTE

In addition to controlling all the functions on your HITACHI Plasma TV, 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/video equipment with one touch. Basic operation keys are grouped together in one area.

To operate your Plasma TV, point the remote control at the remote sensor of the AVC box/Display Monitor and press the TV button. The TV button will blink, indicating that the remote will now control your television.

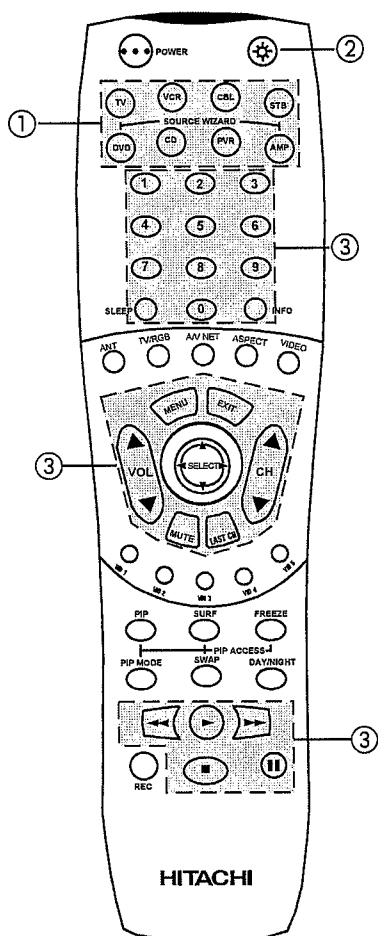
To operate your VCR, point the remote at the remote sensor of the VCR and press the VCR button. The VCR button will blink, indicating that the remote will now control your VCR (see page 35 for instructions on how to program the remote to control your VCR).

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 36 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 37 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 38 for instructions on how to program the remote to control your DVD player).

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 39 for instructions on how to program the remote to control additional Audio equipment).

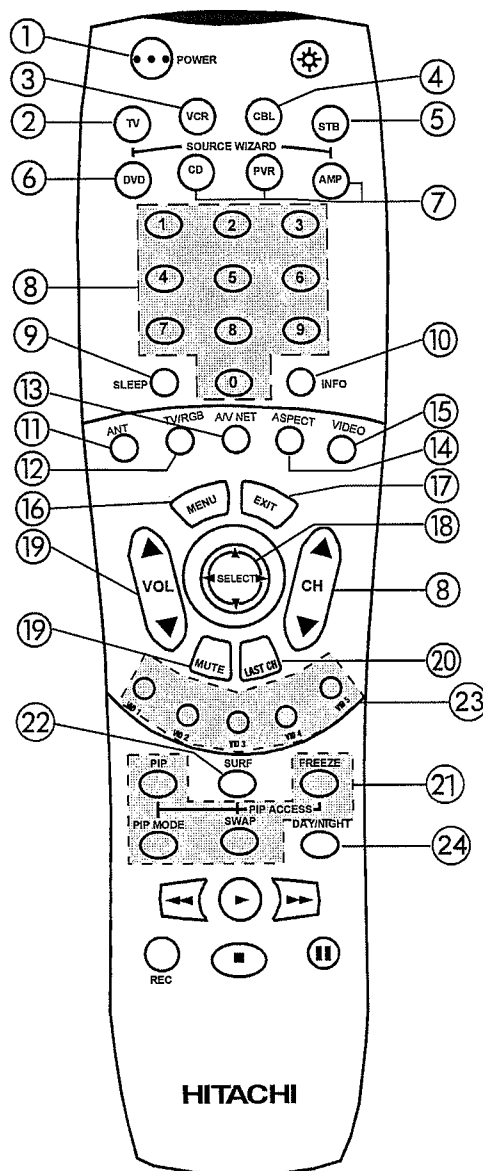


- ① These buttons allow the remote to control your TV, VCR, cable box, satellite receiver, DVD player, or other Audio equipment depending on which mode is chosen, as explained above.

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 the light button is not pressed again. These buttons will not appear to illuminate if the room is too bright.

HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV



THE REMOTE CONTROL

- ① **POWER button**
Press this button to turn the Plasma TV on or off when the remote is in TV mode (see page 24 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 35).
- ④ **CABLE (CBL)**
When the CABLE button is pressed, it will blink to indicate the remote is in CABLE mode (see page 36).
- ⑤ **SET-TOP-BOX (STB)**
When the STB button is pressed, it will blink to indicate the remote is in STB mode (see page 37).
If you have a Satellite receiver, use this button to program your Satellite receiver (see page 37).
- ⑥ **DVD button**
When the DVD button is pressed, it will blink to indicate the remote is in DVD mode (see page 38).



HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV

⑦ CD, PVR, AMP buttons

When pressed, each of these buttons will blink to indicate the remote is in Audio mode (see page 39).

⑧ 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 (▼).

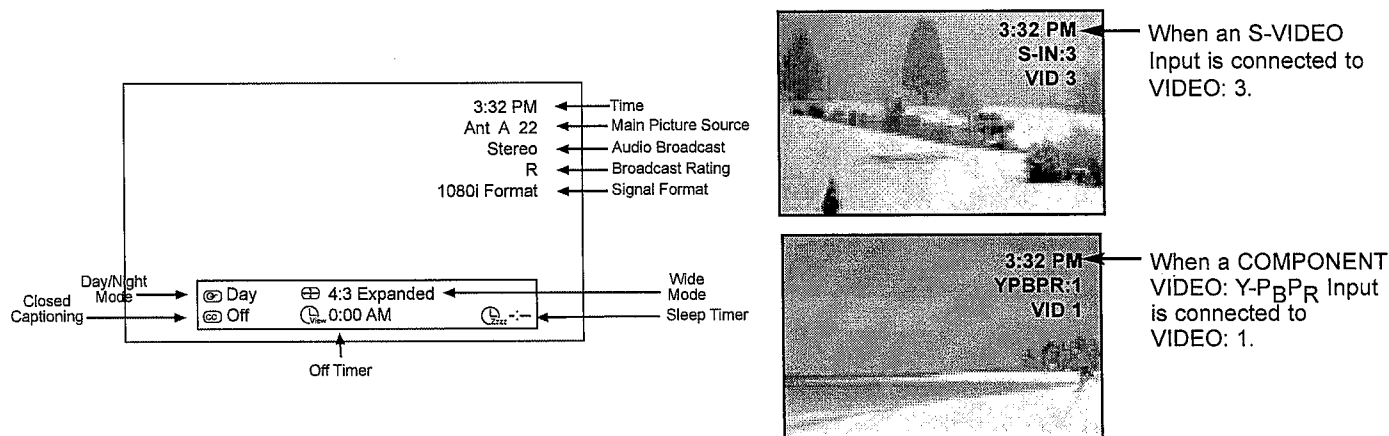
NOTE: The Plasma TV may not receive some channels if you are not in the correct ANTENNA/CABLE mode (see page 49).

⑨ SLEEP button

Press this button to display the sleep timer in the lower center 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.

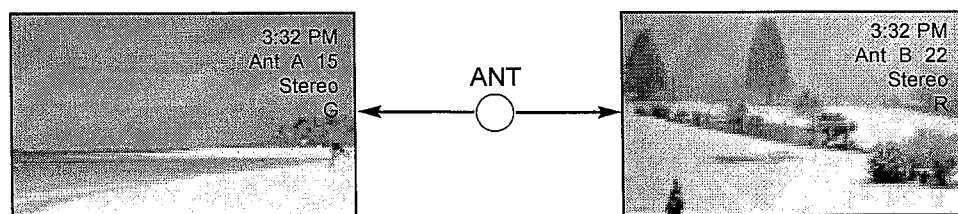
⑩ INFO button

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.



⑪ ANTENNA button

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



⑫ TV/RGB button

Press this button to toggle between RGB (Analog) mode and TV mode.

HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV



13 AV NET button

Press this button to access the Audio/Video network (AV Net) menu. The AV Net allows the user to control external components with the Plasma TV'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.

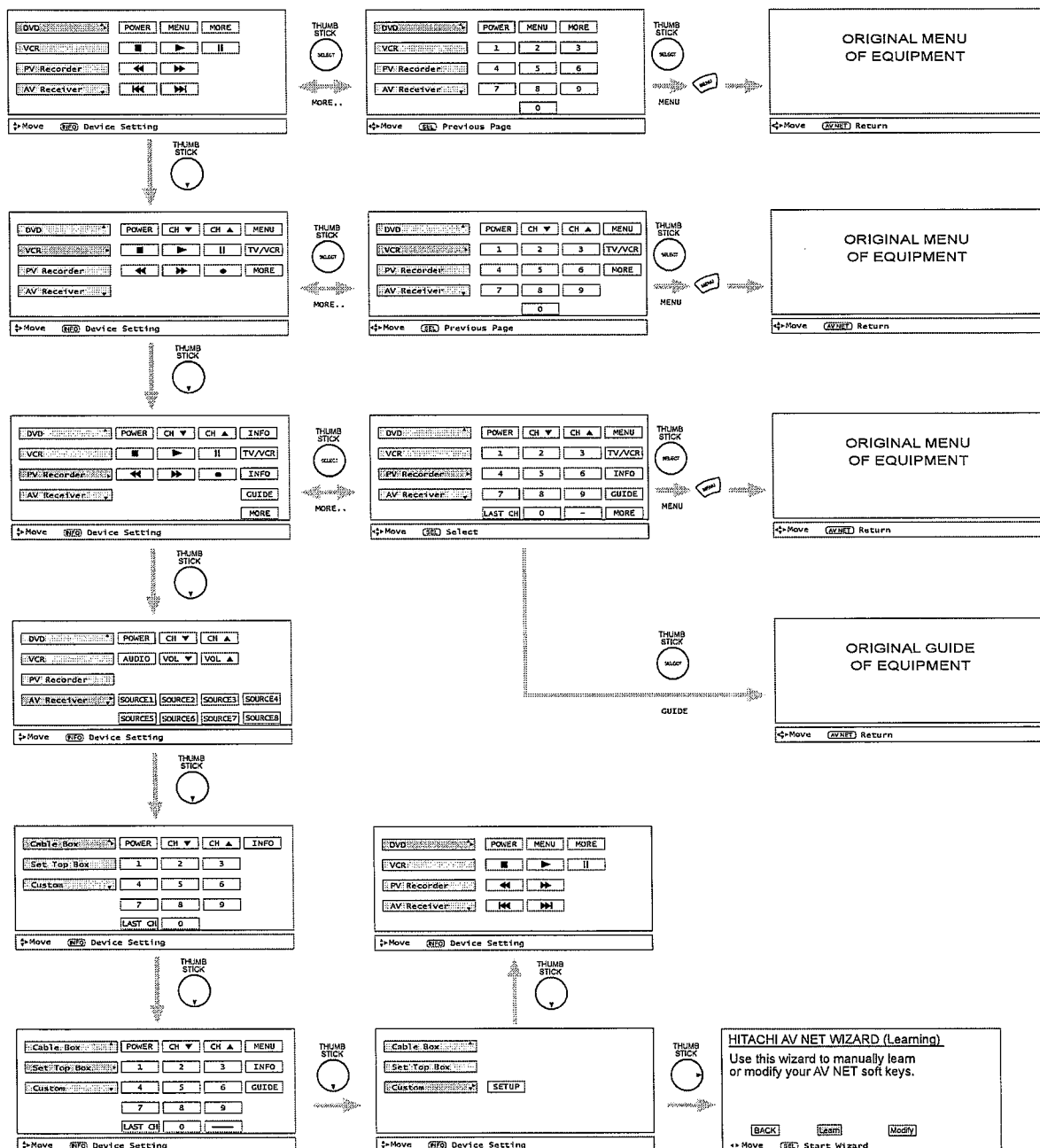
The AV Net Setup Wizard will automatically start upon the very first use. (see page 19-21).

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

Use THUMBSTICK ▲, ▼, ◀, ▶ to navigate and SELECT to select button. The command on the button is passed through the IR mouse and onto the AUDIO/VIDEO equipment. These on-screen buttons are called "Soft Keys".

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 28).

This window shows the available Audio/Video equipment soft keys. The equipment list will scroll up or down.



THE REMOTE CONTROL

NOTE: After selecting the "MENU" soft key, press the MENU button of the Plasma TV remote control to access the Menu of a specific equipment.



HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV

AV NET LEARNING WIZARD

This function of the AV NET makes it more expandable because it allows the user to use equipment that is not supported by the pre-code library, listed on page 21. For example, after programming your equipment to the AV NET and the soft keys do not work, the user just has to follow the steps below. The AV NET Learning Wizard will transfer any remote button IR code of your equipment to the soft keys of your AV NET. If all remote button transfers are successful, the user can now control their equipment by using the Plasma TV remote control.

HITACHI AV NET WIZARD (Learning)
Use this wizard to manually learn or modify your AV NET soft keys.

BACK Learn Modify
← Move (F5) Start Wizard

Highlight CUSTOM, and THUMBSTICK ► to enter AV NET WIZARD. Select MODIFY to make changes on equipment already stored in the CUSTOM memory.

HITACHI AV NET WIZARD (Learning)
A device is stored in memory.
To learn a new device AV Net will replace the current device.

BACK Add New Device
← Move (F5) Initialize

This page will not appear at initial set up.

HITACHI AV NET WIZARD (Learning)
Which device do you want to add?

BACK DVD2 VCR2 PVR2 CBL2 STB2
← Move (F5) Next Step

Select the device (equipment) to be added for soft key learning.

HITACHI AV NET WIZARD (Learning)
Select the DVD2 softkey to learn?

POWER MENU II ◀ ▶ ◀ ▶
SELECT EXIT

Select soft key to be learned.

HITACHI AV NET WIZARD (Learning)
Press and hold desired button to transfer the command to AV NET.

Please wait while AV NET
Learns the command...

HITACHI AV NET WIZARD (Learning)

Transfer not completed!
Try again?

NO YES
← Move (F5) Select

HITACHI AV NET WIZARD (Learning)

Transfer was successful!
Press OK to continue.

BACK OK
← Move (F5) Select

HITACHI AV NET WIZARD (Learning)
Select another DVD2 softkey to learn?

POWER MENU II ◀ ▶ ◀ ▶
SELECT EXIT

HITACHI AV NET WIZARD (Learning)
DVD2 (Custom)

Video Input No Connection
Audio Input No Connection

Transmission Test [POWER] [PLAY] [CH UP]

BACK OK EXIT
← Move (F5) Select

Cable Box POWER MENU
Set Top Box II
DVD2 ◀ ▶ ◀ ▶

← Move (F5) Device Setting

HITACHI AV NET SETTING LIST

Device	Code	Video	Audio
DVD	0072	INPUT 1	Using TV
VCR	---	Not Setup	Not Setup
PVR	---	Not Setup	Not Setup
AVR	---	Not Setup	Not Setup
CBL	---	Not Setup	Not Setup
STB	---	Not Setup	Not Setup
DVD2	---	Not Setup	Not Setup

EXIT (F5) Select

NOTE: It is very important to point the equipment's remote control directly close (about 12 inches) to the LEARNING AV NET sensor of the AVC (see pages 9-10) while trying to transfer the desired remote control button to the AV NET.

HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV



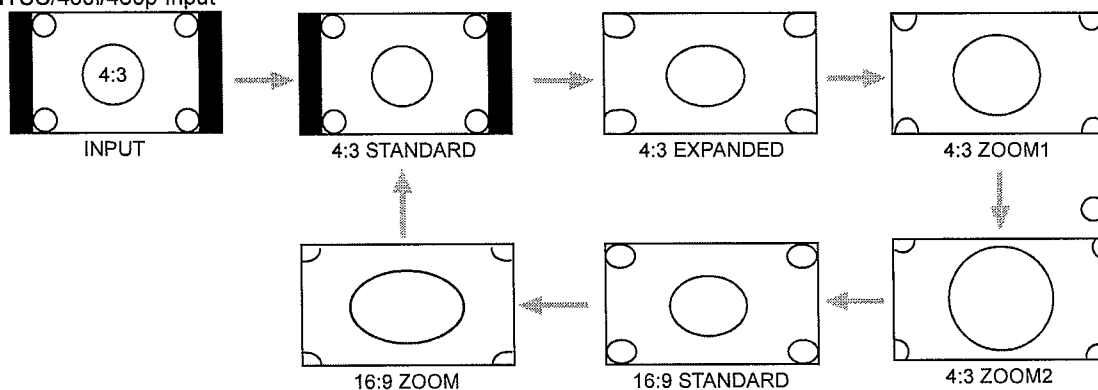
⑭ ASPECT button

Press this button to quickly change the picture format ASPECT ratio.

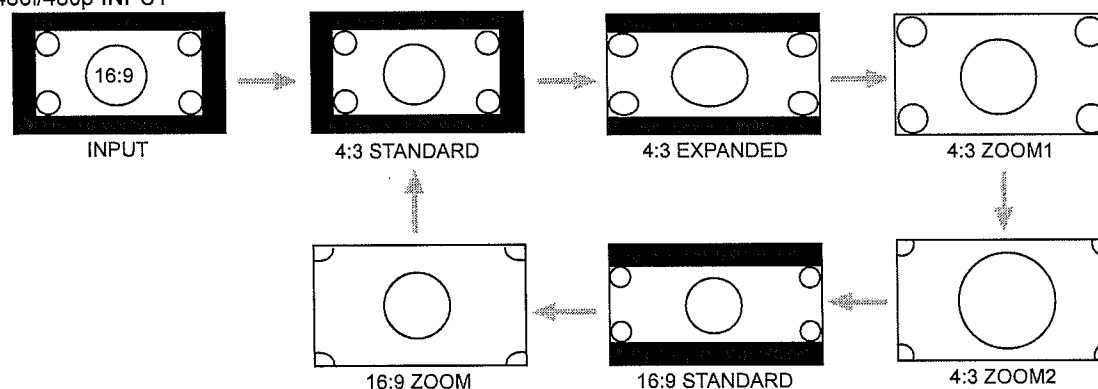
Depending on the input signal, the picture format ratio allows you to adjust the images through the following options.

- 4:3 Standard** Use this aspect mode to display conventional (4:3) images. Side panels (gray areas) are placed to the left and right of the image to preserve the original aspect ratio of the source. Note: Use this mode for only 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the black areas.
- 4:3 Expanded** use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from the center towards the edges of the display area in order to fill it.
- 4:3 Zoom1/Zoom2** Use these aspect modes to zoom in on conventional (4:3) sources.
- 16:9 Standard** Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio.
- 16:9 Zoom** Use this aspect mode to zoom 16:9 images.

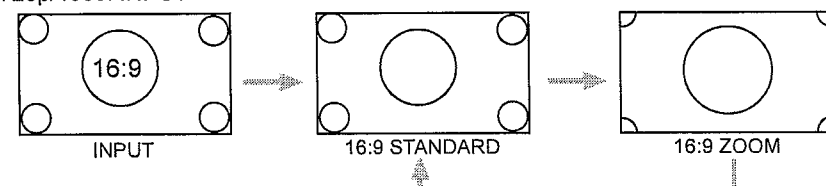
(1) NTSC/480i/480p Input



(2) 480i/480p INPUT



(3) 720p/1080i INPUT



NOTE: The Aspect Style setting you select for an ANT input will automatically be set for the other ANT inputs. However, all five video inputs have independent Aspect Style settings.



HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV

(4) RGB (Analog Input) ASPECT DISPLAY MODE.

ASPECT MODE AVAILABILITY	RGB (Analog) INPUT SIGNAL					
	Others	SVGA/XGA(4)	VGA	480p	720p	1080i
	X	REAL	REAL	REAL(1)	X	X
	NORMAL	NORMAL	NORMAL	NORMAL(1)	X	X
	FULL	FULL	FULL	FULL(1)	FULL(2,3)	FULL(2,3)

For numbers in (), please see corresponding note below.

- NOTES:**
1. Lack of raster can be seen in RGB (Analog) when a 480p signal is input.
 2. AUTO ADJUST function (see page 72) is not available in 720p and 1080i input signal.
 3. FULL aspect mode, only 95% of information can be displayed (5% is treated as overscan).
 4. 50" Only.

15 VIDEO button

Press this button to directly access the VIDEO adjustment menu.

16 MENU button

The MENU button will start the On-Screen Display.

17 EXIT button

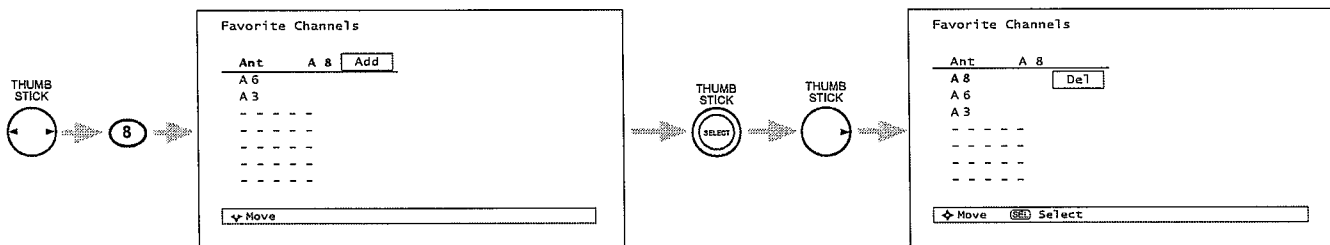
When in MENU mode, this button will exit all On-Screen Displays.

18 THUMB STICK/SELECT button

All the On-Screen Display features can be set or adjusted by using the THUMB STICK (Except for numeric entries). The THUMB STICK will highlight functions or adjust and set different features. Press the THUMB STICK toward desired direction and press down to SELECT.

When no on-screen displays are on the TV screen, use THUMB STICK ◀ or ▶ to access the Favorite Channels feature.

To add channels to Favorite Channels, use the number keys to enter the channel number. Use THUMB STICK ▶ to highlight "Add", then press SELECT to store the channel to the Favorite Channel feature. A maximum of 14 channels can be registered to memory. When registering more than 14 channels, the oldest registered channel will be the first to be deleted.



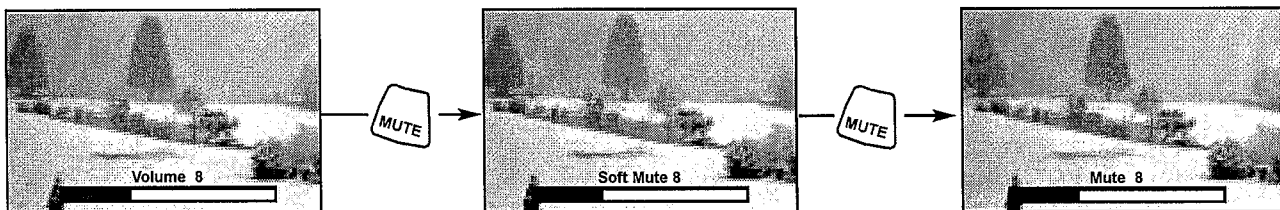
To delete (Del) the channel from the Favorite Channel, use THUMB STICK ▲, ▼ to highlight the channel, then THUMB STICK ▶ to highlight Delete (Del) and press SELECT to delete.

To view a Favorite Channel use THUMB STICK ▲, ▼ to highlight the channel and press SELECT to view.

19 VOLUME, MUTE button

Press the VOLUME up (▲) or down (▼) button until you obtain the desired sound level.

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or press the VOLUME Up (▲) button.



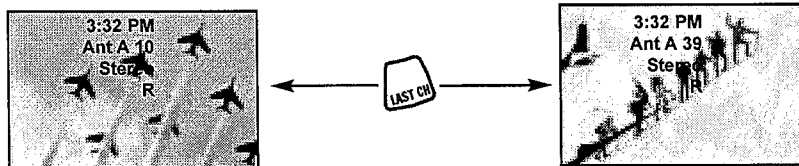
Closed Captioning will display when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (See page 64).

HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV



②① LAST CHANNEL (LAST CH) button

Use this button to select between the last two channels viewed (good for watching two sporting events, etc.).

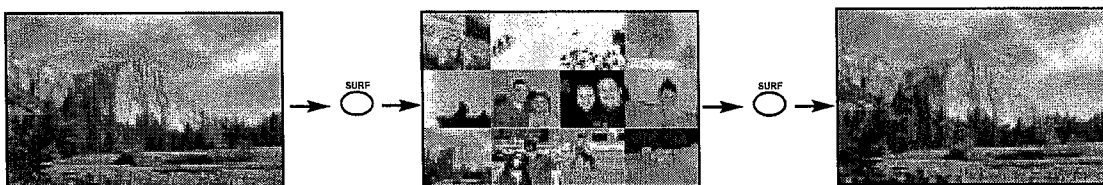


②① PICTURE-IN-PICTURE buttons

See separate section on pages 32~34 for a description.

②② SURF button

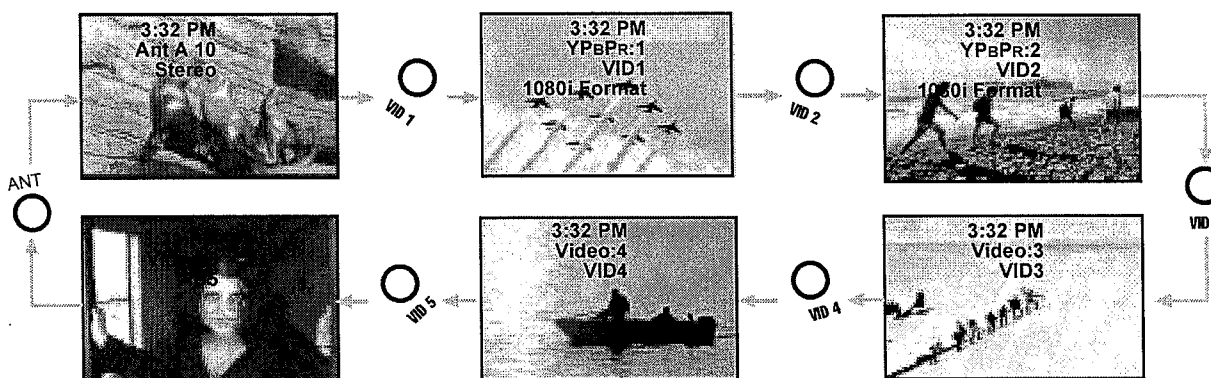
Press the SURF button to automatically scan all active channel numbers (those set in memory) and display them as PIP sub-pictures. Press the SURF button a second time to remove the sub-pictures from the screen.



- NOTES:**
1. If no buttons are pressed when in SURF mode, auto-scanning will continuously scan channels in memory (see page 50).
 2. If a channel is changed during this SURF scanning, sub-pictures will be removed from the screen.
 3. If MOVIE/TV RATINGS LOCK setting is ON, PIP SURF mode will be deactivated.
 4. CLOSED CAPTION will not appear when PIP SURF mode is on.
 5. The SURF button will only work in ANT A and ANT B.

②③ VID1 ~ VID5

When the remote control is in TV mode, press these buttons to directly select the video input sources between the five video inputs.



②④ DAY/NIGHT button

Press this button to toggle between Day and Night picture mode settings. Select Day for day time viewing with more brightness and contrast to compete with room light. Select Night for night time viewing with less brightness and contrast for a more detailed picture.



USING THE REMOTE TO CONTROL VCR FUNCTIONS

Operating the precoded function for your VCR.

This remote is designed to operate different types of VCRs. You must first program the remote to match the remote command set of your VCR (refer to page 40 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 40. The VCR button 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 if 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.

NOTES:

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.

① VCR Button

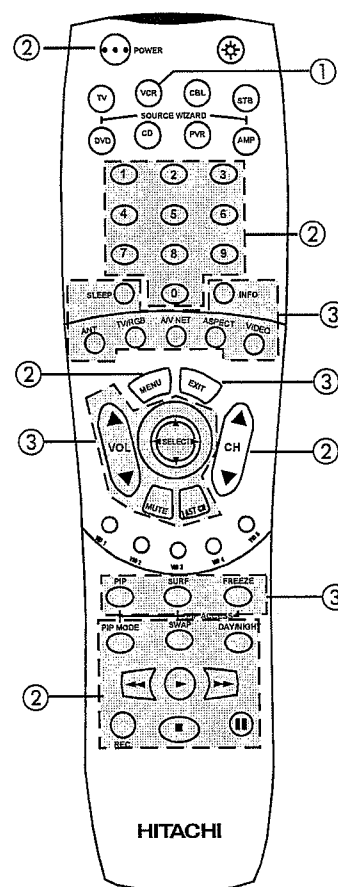
This button allows the remote to control your VCR by setting it to VCR mode.

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.



THE REMOTE CONTROL

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.

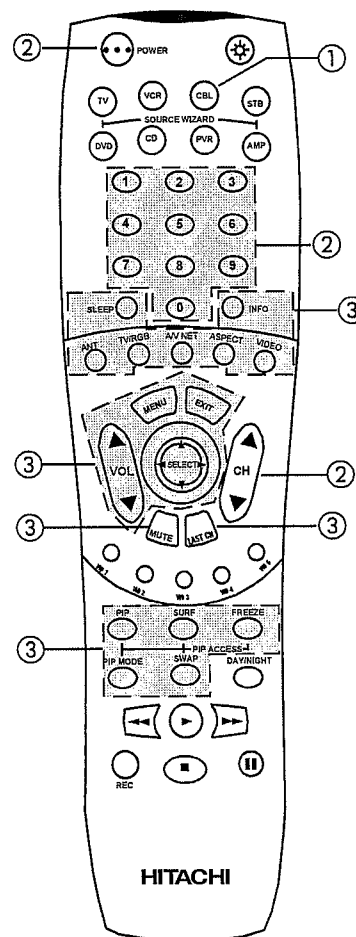
This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote command set of your cable box (refer to page 40).

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 40. The CBL button 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 if 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 command set of your set-top-box/satellite systems (refer to page 40).

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 40. The STB button 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 if 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

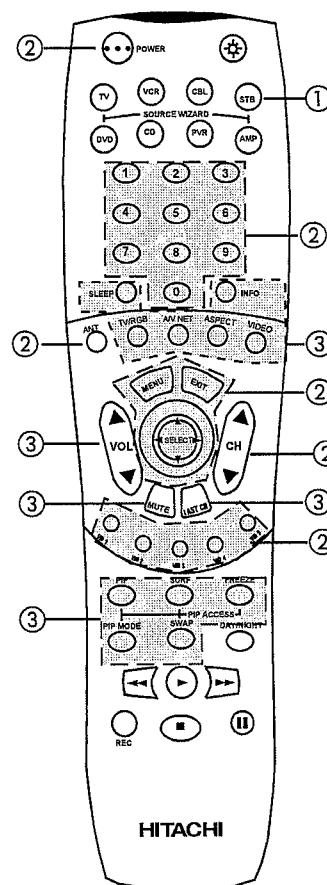
This button allows the remote to control your satellite receiver by setting it to SET-TOP-BOX/SATELLITE mode.

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.



THE REMOTE CONTROL

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 command set of your DVD player (refer to page 40 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 40. The DVD button 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 if 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

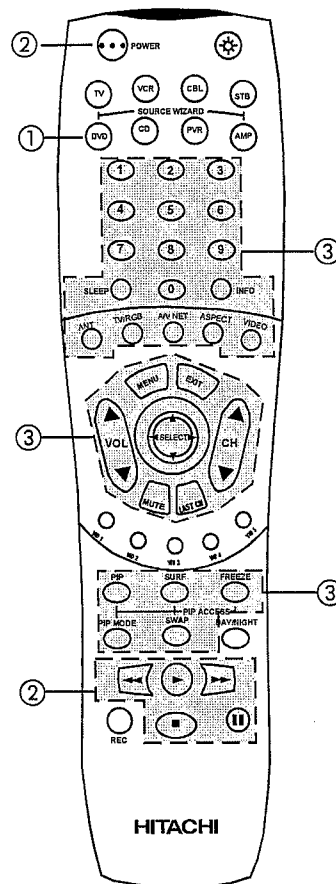
This button allows the remote to control your DVD player by setting it to DVD mode.

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 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 command set of your Audio component (refer to page 40 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, PVR, or AMP button to switch to Audio component pre-coded mode.
4. Hold down the CD, PVR, or AMP button on the remote and enter the two digit preset code that matches your Audio component, as shown on page 40. The CD, PVR or AMP button 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 if 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, PVR, AMP Buttons

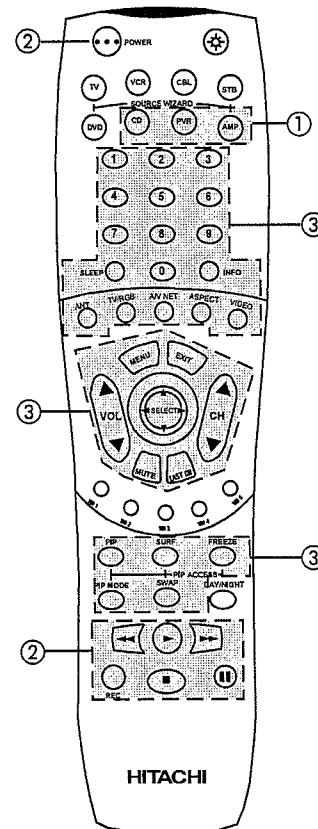
These buttons allow the remote to control your Audio equipment by setting it to Audio mode.

② PRECODED AUDIO Buttons

These buttons transmit the chosen precoded Audio component codes.

③ EXCLUSIVE TV Buttons

These buttons are for operating the Plasma TV.



THE REMOTE CONTROL

MY AUDIO EQUIPMENT CODE IS:

CD _____
PVR _____
AMP/RCVR _____

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



AUDIO/VIDEO CODES FOR REMOTE CONTROL ONLY

VCR BRAND	CODE
Adventura	01
Aiko	09
Aiwa	01
Akai	02, 47, 48
American High	23
Asha	44
Audiovox	24
Beaumarck	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
Cybernex	44
Daewoo	09, 17
Dynatech	01
Electrohome	24
Electrophonic	24
Emerex	08
Emerson	01, 09, 13, 16, 24, 27, 28, 33, 34, 36, 41, 47
Fisher	19, 21, 32
Fuji	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, 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
Videoaway	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
Phillips	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
Phillips	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

PVR BRAND	CODE
Tivo	01
Replay	02