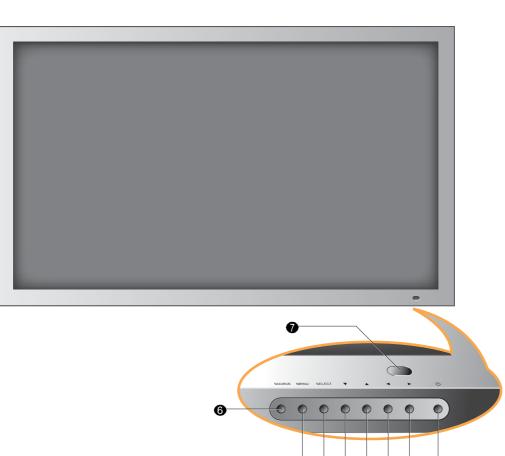
Parts Names and Functions - For A421S/A421H Model only

Front View



* This product image may be a bit different from the actual product.

Power button

Use this button to turn on or off the TV.

Volume buttons

Use these buttons to adjust sound levels. These buttons also serve as the cursors of Select/Adjust in Menu mode.

Channel buttons

Use these buttons to change channels. These buttons also serve as the cursors of Down and Up buttons in Menu mode.

Select button

Use this button to select each item from the menu mode.

Menu button

6 0

Use this button to display or exit from the menu mode.

Ø

6

Source button

Use this button to switch among inputs connected to the TV.

Remote sensor and power LED.

- Point the remote control toward LED.
- It displays standby or operation status.

- Power Indicator Status -

Indicator	Status
Red	Standby
Green	Power on

HYUNDAI LCD/PDP TV

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2

Rear View

* This product image may be a bit different from the actual product.

- HDMI (or DVI) Video input terminal
- D-SUB input terminal

HDMI (or DVI)/D-SUB Audio input terminal

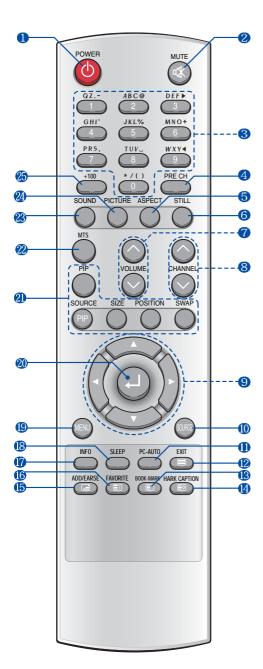
- Subwoofer output terminal When producing bass, connect the cable to the woofer with *AMP.
- G Component 2 Video input terminal
- Component 2 Audio input termina
- Component 1 Video input terminal
- Component 1 Audio input termina
- S-Video input terminal

- Wideo input termina
- S-Video/Video Audio input terminal
- RS-232 input terminal Connect to the RS-232 terminal of a PC to check its service.
- (B) Monitor Video output terminal
- Monitor Audio output terminal
- Antenna 1 (Analog/DTV) input terminal
- Power (AC) input terminal Connect the power cord to this terminal.

Power switch

- Use this switch to turn on/off powe.
- Stand assembly
- Speaker terminal
- Speaker assembly.
- OScrew hole for fixing on a wal
- Carrying handles

Remote Control



- 1. POWER/STANDBY
- 2. MUTE
- 3. NUMERIC KEYS
- 5. ASPECT RATIO 7. VOLUME
- 4. PREVIOUS PROGRAM 6. STILL
- 6. STIL
- 8. Channel Selection
- 9. LEFT/RIGHT MOVE/ADJUST

Use these buttons to move between menu items or adjust each item. 10. SOURCE

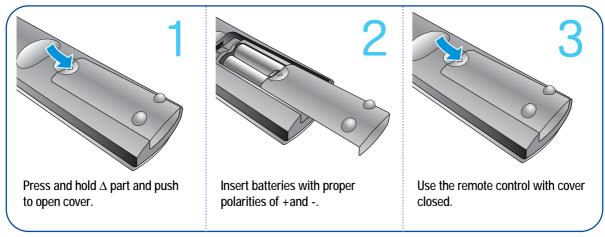
- Use this button to select External Input.
- 11. Auto adjust in PC mode
- 12. EXIT
- Use this button to end the OSD.
- 13. BOOK-MARK
- 14. HARK-CAPTION
- 15. ADD/ERASE
- Use this button to add or erase channels.
- **16. FAVORITE**
- Use this button when watching your favorite channel.
- 17. INFOMATION
- Use this button to display resolution or various program.
- 18. SLEEP
- 19. MENU
- Use this button to call the OSD on the screen.
- 20. MENU SELECTION
- 21. PIP FUNCTIONS
- PIP : Use this button for PIP On/Off.
- SOURCE : Use this button to select the input source of sub-picture.
- SIZE : Use this button to select the size of sub-picture.
- POSITION : Use this button to select the position of sub-picture.
- SWAP : Use this button to swap main and sub-picture.

22. MTS

Use this button to display types of audio signals currently aired on TV.
 Or you can use this button to switch to other Sound Mode available.
 23. SOUND MODE

- 24. PICTURE MODE
- 25. +100
- This button will help you to press the numbers over 100. ex) For channel number 120, press +100 then 2 and 0.

How to Insert Batteries in Remote Control



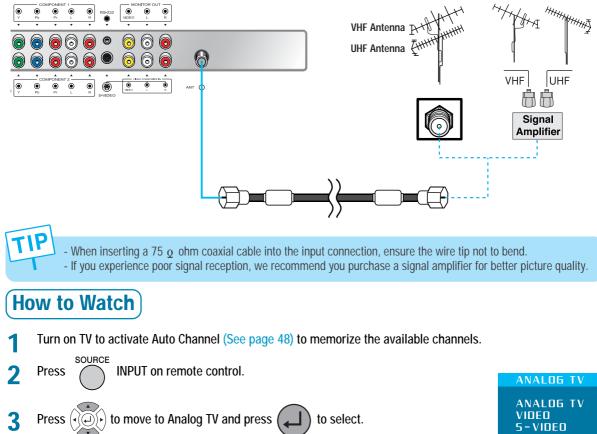
* Battery type :1.5V/AAA

How to Watch Analog Broadcasts with a Single Antenna

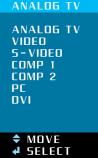
Connection Method

Make sure that the antenna cable is connected to ANT.

- Antenna or Cable service without a cable box connections
- For optimum picture quality, adjust antenna direction if need,



Press 700 button or CHANNEL button to select the desired channels. Δ



Before Connecting the Video/Audio Connections to External Devices...

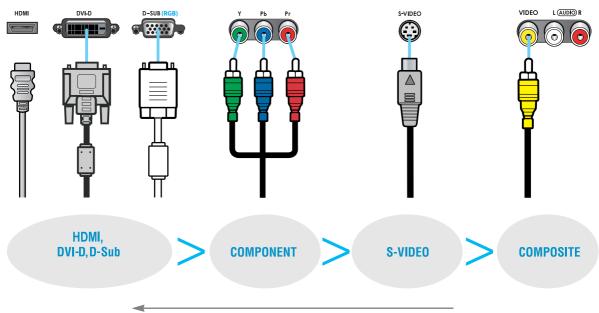
Please make sure to read the following information on connection to enjoy best picture quality.

Video/Audio connectors

Types of video/audio cable :

① HDMI / DVI-D ② 15-Pin D-Sub ③ COMPONENT ④ S-VIDEO ⑤ COMPOSITE

Best picture quality is displayed in the following order.



The superior picture quality starts from the far left side.



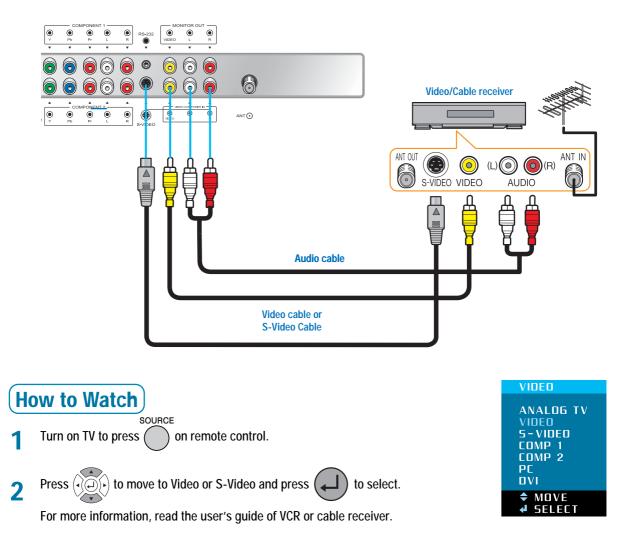
- When connecting an external device, ensure to read the connecting device's manual. The location or the number of the terminals on the external device may be different depending on its model.

- Connect a HDMI (or DVI) connection to the output of DVD, cable receiver or satellite receiver. Connecting a HDMI (or DVI) connection to a PC may result in a message, "Unknown Signal".
- Do not power on until all necessary connections are made. If power is given before connections completed, this may damage the product.
- Make sure to match the cable in color with the terminal.
- Make sure to check the type of terminals to be connected.

How to Connect a VCR/Cable Receiver

Connection Method

- 1 Connect the Video cable or S-Video cable between Video/S-Video output terminal of VCR or Cable receiver and Video/S-Video input terminal of TV. (Connect the jacks to terminals in the same color.)
- 2 Connect the Audio cable (Left: white, Right: red) between Audio output terminal of VCR or cable receiver and Audio input terminal of TV. (Connect the jacks to terminals in the same color.)



To enjoy better picture quality, use the S-Video cable rather than the composite cable.

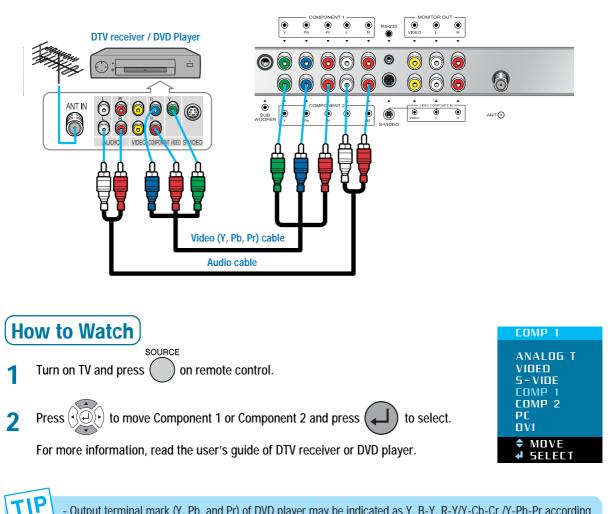
ГIF

How to Connect a DTV Receiver or DVD Player

Connection Method

1 Connect the Video cable (Y, Pb, Pr) between output terminals (Y, Pb, Pr) of DTV receiver or DVD player and the input terminals (Y, Pb, Pr) of DTV/DVD (480i/480p/720p/1080i) on the rear of TV. (Connect the jacks to terminal in the same color.)

2 Connect the Audio cable between Audio output terminal of DTV receiver or DVD player and Audio input terminal for DTV/DVD Audio on the rear of TV. (Connect the jacks to terminals in the same color.)



- Output terminal mark (Y, Pb, and Pr) of DVD player may be indicated as Y, B-Y, R-Y/Y-Cb-Cr /Y-Pb-Pr according to the type of DVD player models.

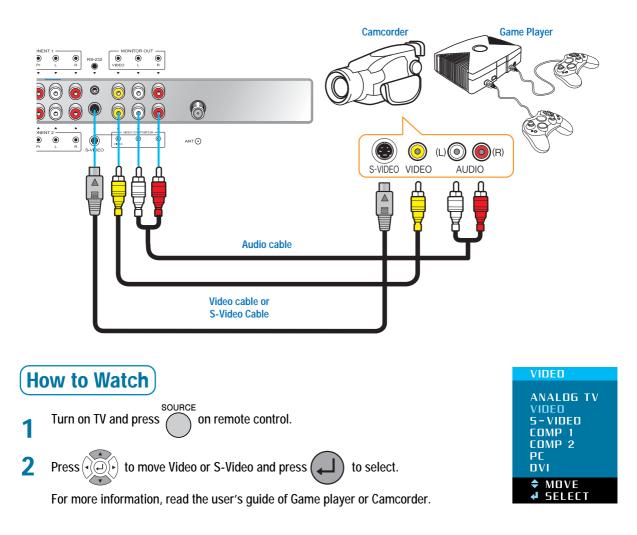
- If your DVD player or Set Top Box supports **HDMI (or DVI)** /D-SUB, see Connecting to a PC (page 25) for connection. You can enjoy more clear picture quality.

Γ,

How to Connect a Camcorder/Game Player

Connection Method

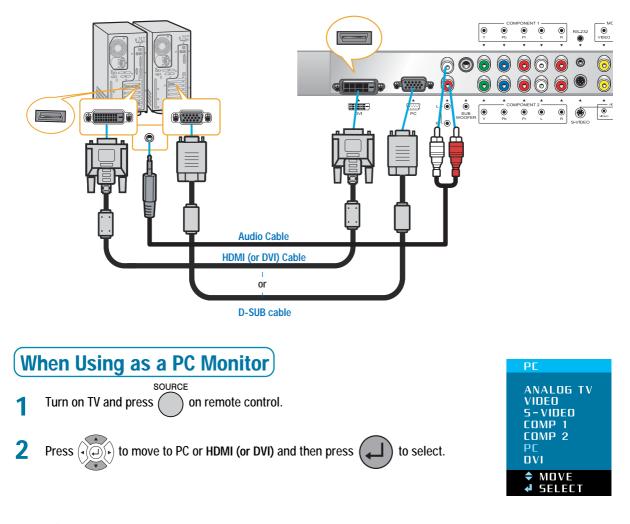
- **1** Connect the Video/S-Video cable between Video/S-Video output terminal of Camcorder/Game player and Video/S-Video input terminal of TV. (Connect cables and terminal in the same colors.)
- 2 Connect the Audio cable (Left-white, Right-red) between Audio output terminal of Camcorder/Game player and Audio input terminal of TV. (Connect the jacks to terminals in the same color.)



How to Connect to a PC

Connection Method

- Connect the PC signal cable (15-pin D-sub) between the output terminal of PC and the D-sub input terminal of TV.
- 2 Connect the Audio cable between Audio output terminal of PC and Audio input terminal for PC on the rear of TV. (Connect the iacks to terminals in the same color.)



- If you use the HDMI (or DVI) connection, you can enjoy better picture quality.
- This product supports Plug-and-Play function.

'IP

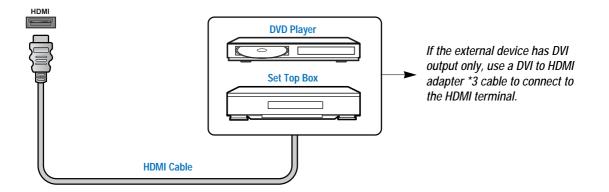
- We recommend the above method if the DVD player or set top box supports DTV signal with HDMI (or DVI)/ D-Sub (15 pin) cable for the better picture quality.
- If you input an unsupported resolution in PC or HDMI (or DVI) mode, the screen won't be displayed properly.

Resolutions Supported in PC

Resolution	Horizontal frequency	Vertical frequency
640 x 350	31.47	70.09
040 X 350	37.86	85.08
	31.47	59.94
640 x 480	37.86	72.80
	37.50	75.00
	43.27	85.01
720 x 400	31.47	70.08
	37.88	60.32
000 / 00	48.08	72.18
800 x 600	46.88	75.00
	53.67	85.06
832 x 624	49.72	74.55
	48.36	60.00
1024 x 768	60.02	75.03
	68.68	85.00

HDMI Connection - For HDMI Model only

HDMI *1 (High Definition Multi media Interface) is the first all digital consumer electronics A/V interface that supports uncompressed standard. The HDMI terminal supports both video and audio information. To the HDMI*1 input terminal, you can connect an EIA/CEA-861/861B*2 compliant consumer electronic device, such asa Set Top Box or DVD player with HDMI or DVI output terminal. Input a High-bandwidth Digital Content Protection (HDCP) high-definition picture source to this HDMI terminal, so youcan display the high-definition pictures on this TV in the digital form.



Compatible VIDEO Signal

Resolution	No. of dots(HXV)	Vertical scanning frequency(Hz)		
1080i	1920 X 1080i	59.94/60		
480p	720 X 480p	59.94/60		
	640 X 480p	59.94/60		
720р	1280 X 720p	59.94/60		

This input terminal is not intended for use with computers.



Compatible sampling frequency of AUDIO signal through HDMI (L.PCM) : 48kHz / 44.1kHz / 32 kHz

Notes:

- This HDMI connector is Type A.
- If you connect an equipment without a digital output terminal, connect to the COMPONENT VIDEO, S VIDEO or VIDEO input terminal on the TV so you can enjoy an analog signal.
- The DIGITAL IN terminal can only be used with 1080i, 480i or 480p picture signals. Set the Digital Set -Top -BoxDIGITAL OUT terminal Output setting to 1080i, 480i or 480p. For detailed information, refer to the Digital Set -Top -Box instruction manual. If you cannot display the picture because your Digital Set -Top -Box does not have aDIGITAL OUT terminal Output setting, use the component Video Input (or the S Video Input or Video Input). In thiscase the picture will be displayed as an analog signal.

to select .

(How to Watch)

1 Turn on TV and Press

) on remote control.

Press up/down button to move HDMI and press





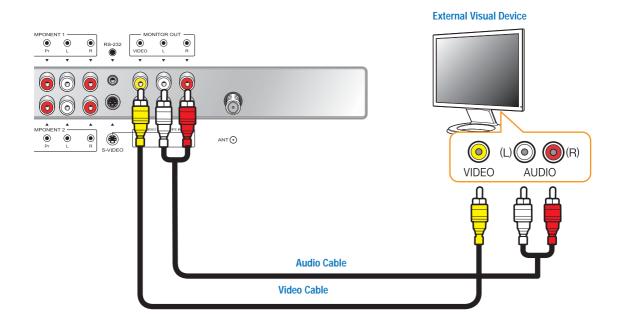
- *1 HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMILicensing LLC.
- *2 EIA/CEA-861/861B profiles compliance covers profiles for transmission of uncompressed digital video includinghigh bandwidth digital content protection.
- *3 HDMI-DVI conversion cable (TY-SCHO3DH): available on Panasonic Website (www.panasonic.com). Consult yourconsumer electronics dealer for availability details.

How to Connect an External Visual Device

You can connect your TV to other visual device to watch two TV programs at the same time.

Connection Method

- Connect the Composite Video cable between Video input terminals of an external device and the Video output terminals for Video on the rear of TV. (Connect the jacks to terminals in the same color.)
- 2 Connect the Audio cable between Audio input terminal (Left-white, Right-red) of an external device and Audio output terminal for Video on the rear of TV. (Connect the jacks and terminals in the same color.)
- 3 For more information, read the user's guide of an external device.



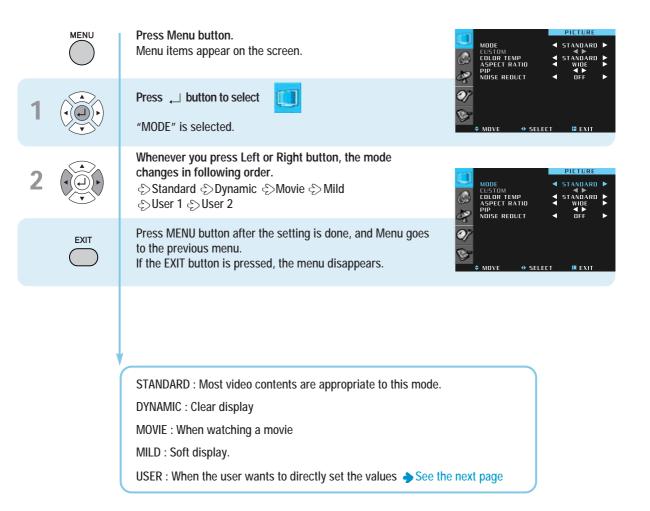


Video and Audio outputs are available only when watching an Analog TV, or VCR. This is not supported in the Input Mode of Component, HDMI (or DVI) /D-SUB or S-Video.



How to Select the Picture Mode

Users can automatically adjust the picture mode according to the input mode.



How to Directly Select Picture Mode :

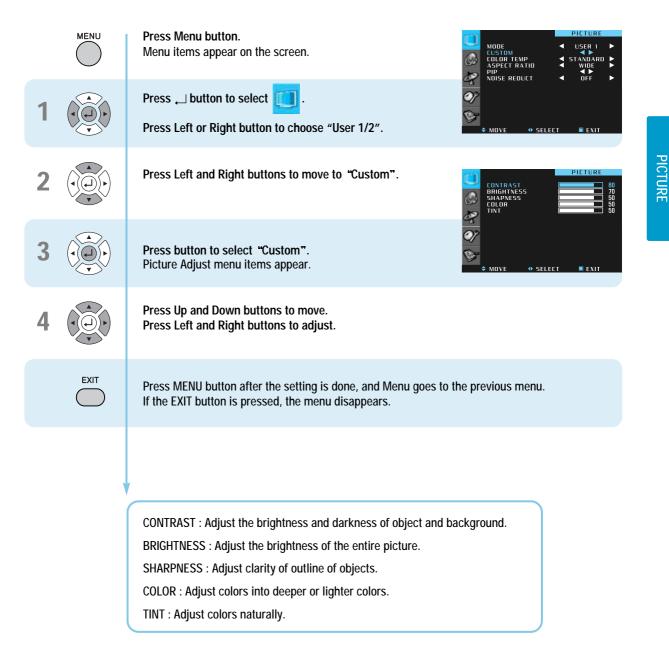
- Press MODE. button.
- When the input mode is Analog TV, Video, S-Video, Component 1 & 2, users can select (>) Standard (>) Dynamic (>) Movie (>) Mild (>) User 1/2.
- When the input mode is PC, HDMI (or DVI), users can select \leq Standard \leq Low (Character Mode) \leq High (Movie) \leq User1/2 .



- The adjustment menu may be different depending on the input mode.
- The adjustment of Contrast, Brightness, Sharpness, Color and Tint is allowed only in the Custom mode.

How to Set the Desired Picture

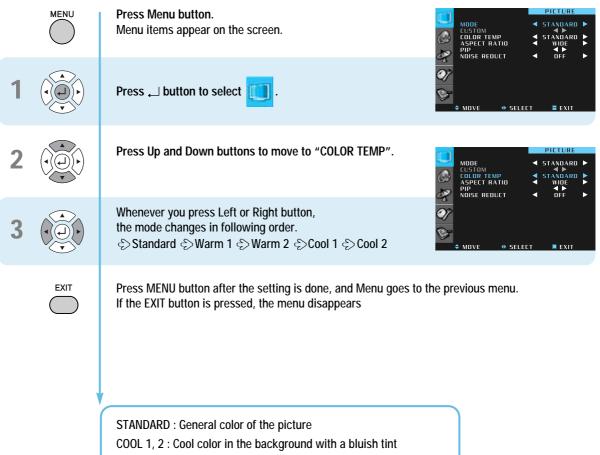
Users can manually adjust their desired picture.





How to Adjust the Color Temperature of the Screen

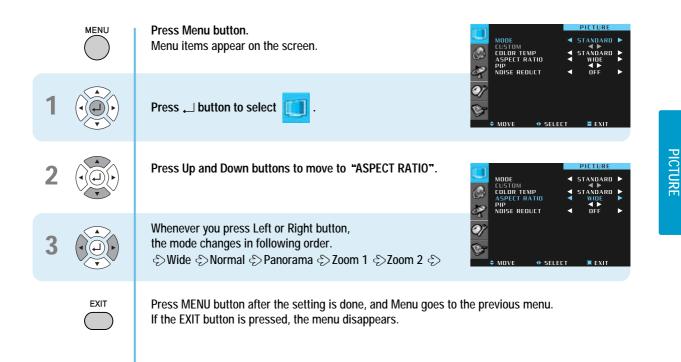
Users can manually adjust their desired color temperature.



WARM 1, 2 : Warm color in the background with a reddish tint

How to Select the Aspect Ratio

Users can manually adjust the size of the screen.



ASPECT	
How to Directly Select the Screen Size : Press button.	

The current screen size is displayed on the OSD menu. If you press the ASPECT button repeatedly, the screen size changes in following order

- Under PC inputs : Users can select > Wide > Normal.
- Under HDMI (or DVI), Component 1.2 inputs : Users can select 🖒 Wide 🖒 Normal 🖒 Zoom 1 🖒 Zoom 2.
- Under other inputs : Users can select <> Wide <> Normal <> Panorama <> Zoom 1 <> Zoom 2.



WIDE

General broadcast picture is adjusted to 16:9.



4:3 general picture size

Panorama

Picture size for panorama video







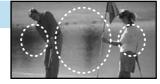
Z00M 1

Picture enlarged to 16:9 format, letter box format.

Z00M 2

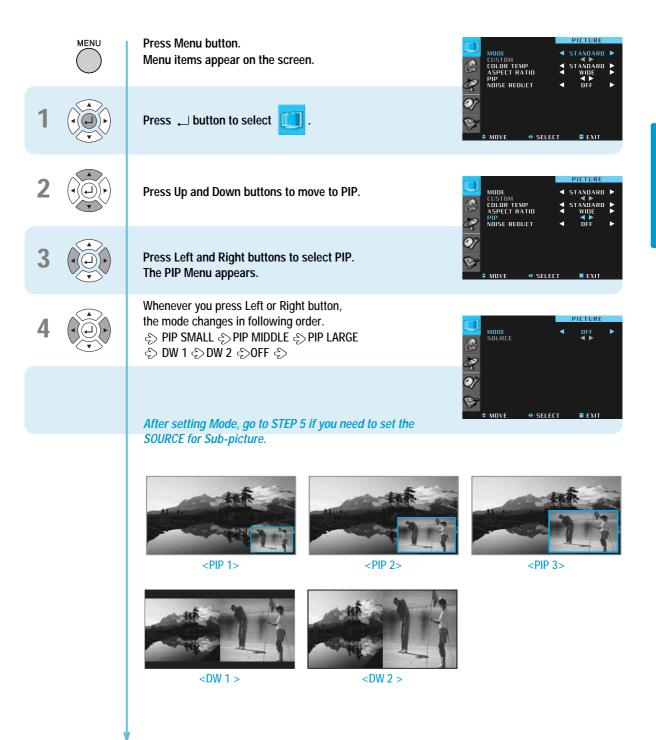
Zoom in 16:9 in vertical direction





How to Watch the PIP

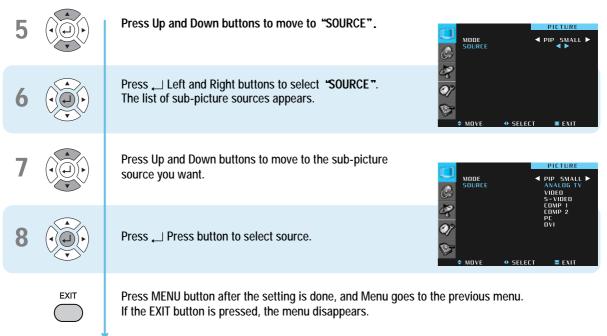
This function allows you to watch the PIP or DW mode.





How to Set the INPUT for the Sub-Picture

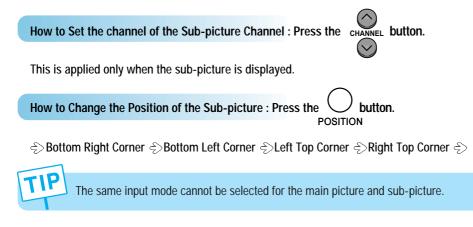
This function is available only in the PIP mode.



You can set the PIP mode quickly using the remote control.

How to Select the PIP : Press the button.		
PIP		
Whenever you press this button, the PIP mode is selected or deselected.		
How to Calcut the Circ of Cub minture . Drace the		
How to Select the Size of Sub-picture : Press the \bigcirc button.	VIDEO	
SIZE Whenever you press this button, the size of the Sub-picture changes.	ANALOG TV VIDEO 5-VIDEO COMP 1	
How to Select the INPUT : Press the button.	COMP 2 PC	
SOURCE		
Press the \blacktriangle \checkmark buttons to select the INPUT and then select \downarrow .	♦ MOVE ♦ SELECT	
How to Switch the PIP to Sub-picture : Press the button.		
SWAP		

Whenever you press this button, the Main picture and Sub-picture are switched each other.



Supported PIP Table

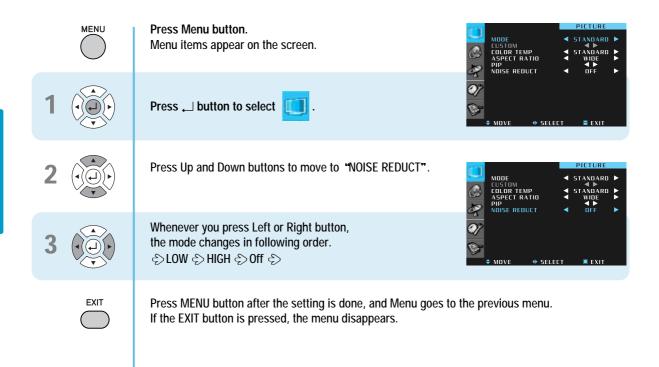
Sub	PC	HDMI(or DVI)	Component 1	Component 2	Analog TV	Video	S-Video
PC	Х	Х	Х	Х	0	0	0
HDMI(or DVI)	Х	Х	Х	Х	0	0	0
Component 1	Х	Х	Х	Х	0	0	0
Component 2	Х	Х	Х	Х	0	0	0
Analog TV	0	0	0	0	Х	0	0
Video	0	0	0	0	0	Х	0
S-Video	0	0	0	0	0	0	Х

$PIP : 0 \rightarrow Supported, X \rightarrow Not Supported$



PICTURE

How to Noise Reduct



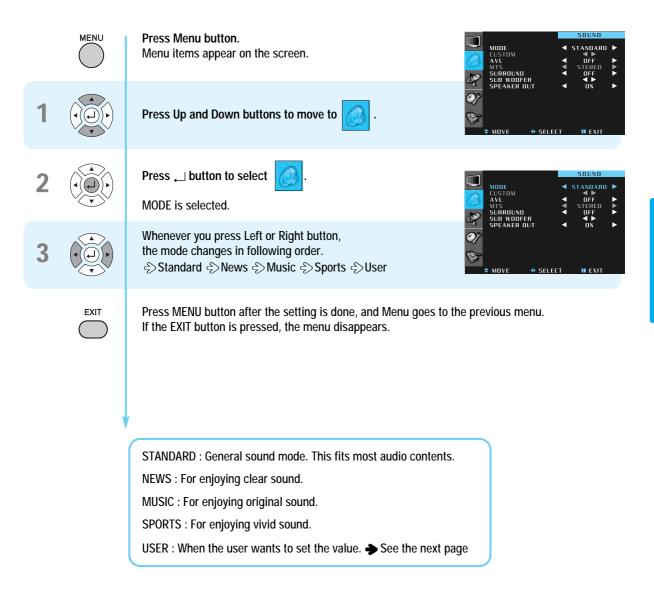


In the Noise Reduction, the more you reduce the screen noise, the more the sharpness level of the pictures may become degraded.

HYUNDAI LCD/PDP TV

How to Select the Audio Mode

Users can adjust sound mode automatically as they want.



How to Directly Select Sound Mode : O Press MODE. button.

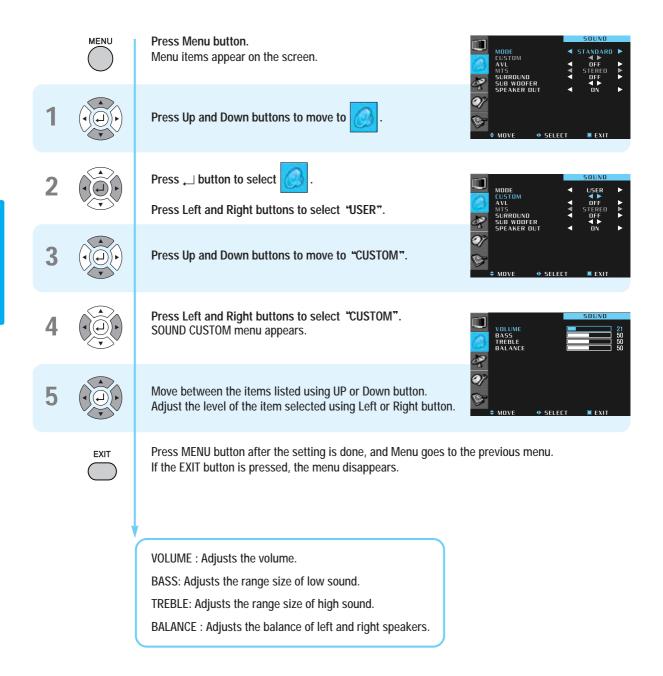
Users can select \diamondsuit Standard \diamondsuit News \diamondsuit Music \diamondsuit Sports \diamondsuit User .

SOUND



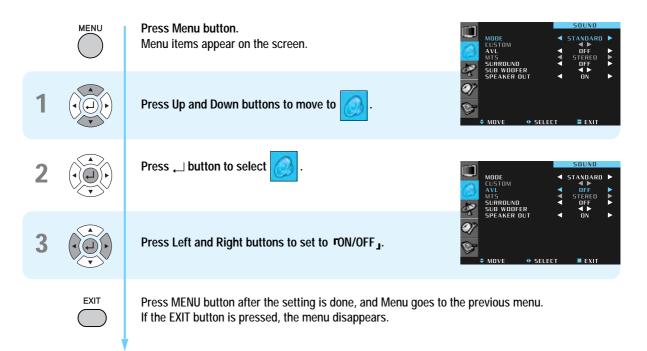
How to Adjust the Desired Audio Mode

Users can adjust sound mode automatically as they want.



How to Use the Automatic Volume Control

With this Automatic Volume Level Control, everything you watch will always maintain the volume level that you decide.



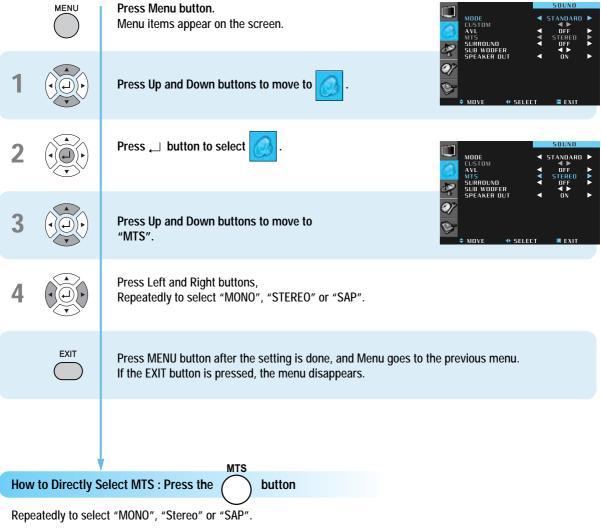
44

SOUND



How to Select MTS(Multi-Channel Sound)

Depending on the particaular program being brodcast, you can select stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Somtimes SAP has unrelated information like news or weathter.)

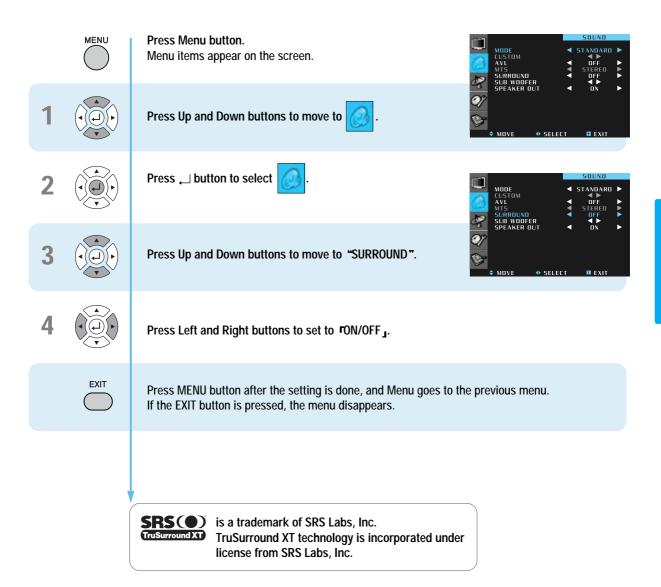


- Choose "Stereo" for channels that are broadcasting in STEREO.
- Choose "MONO" for channels that are broadcasting in MONO, or if you are having difficultly receiving a STEREO signal.
- Choose "SAP" to listen to the seperate audio program, which is usually a foreign-language translation.



How to Listen to SRS TruSurround XT (Surround)

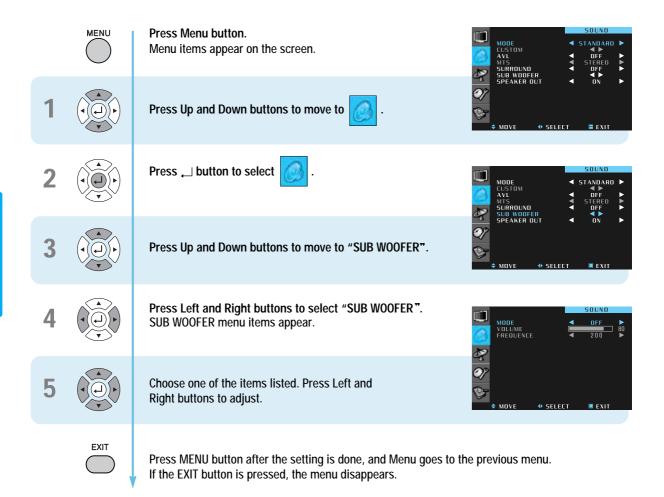
Users can enjoy spectacular 3D sound.





How to Set the Output of Subwoofer

You can set this function when you wish to install your subwoofer system.





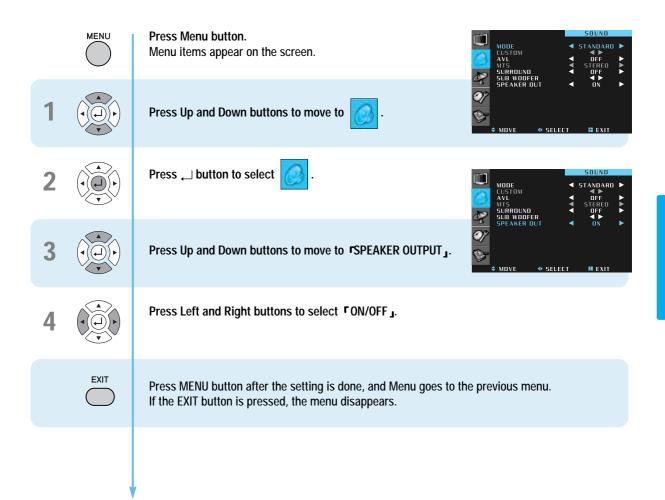
- The frequencies in the entry are the subwoofer's frequency range.

- You make sure to use a subwoofer speaker system with built-in amplifier.

HYUNDAI LCD/PDP TV

How to Set the Speaker Out

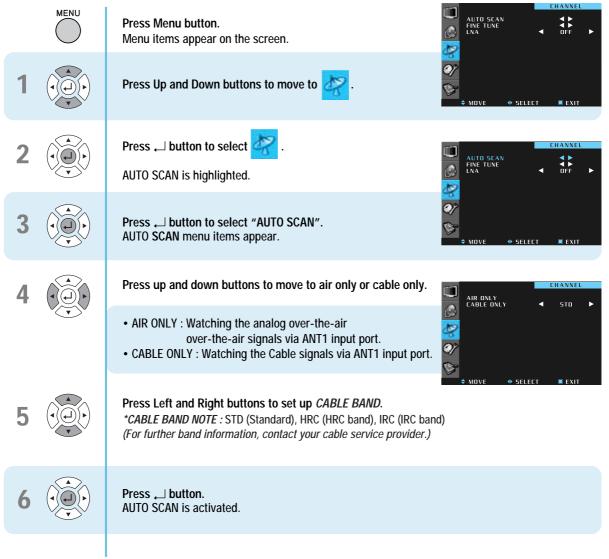
If you wish to use an external audio system, you can turn off the TV speakers.





How to Store Channels Automatically

- Your TV can memorize and store all of the available analog broadcast signals for both "off-air" (antenna) and cable channels.
- Before your television can begin memorizing the available channels, make sure to specify the type of the signal source (antenna or cable) connected to your TV.





- In the middle of AUTO SCAN, if you press , J button once, analog AUTO SCAN is interrupted. Press the Menu button to exit. Then the original channel is returned.
- If you have changed the connection of an antenna or cable, perform AUTO SCAN again.

How to Add/Erase Channels Manually

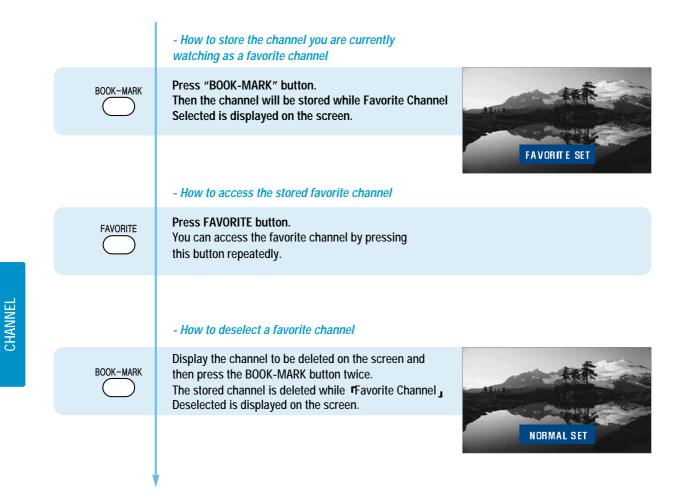
Users can add or erase the desired channels.

1	CHANNEL	Press A vschannel buttons or the number buttons on remote control to view all channels that will be added or erased.
2	ADD/ERASE	Add or erase channels by pressing the ADD/ERASE button.
3		Press Left and Right buttons to set FADD/ERASE .
4		Press Up and Down buttons to move to FYES/NO J.
5		Press , button to set.



How to Set Favorite Channels

Users can store frequently watched channels to quickly access a preferred channel.

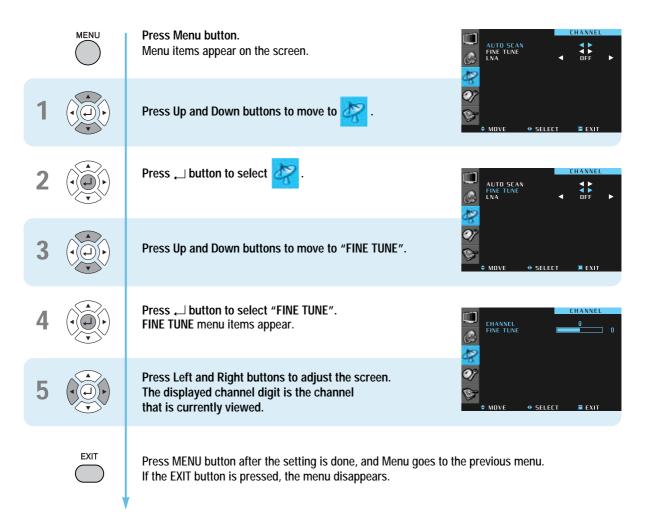




The Favorite function is available only with remote control.

How to Fine Tune Channel Reception

If the reception is clear, you do not have to fine tune channels, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

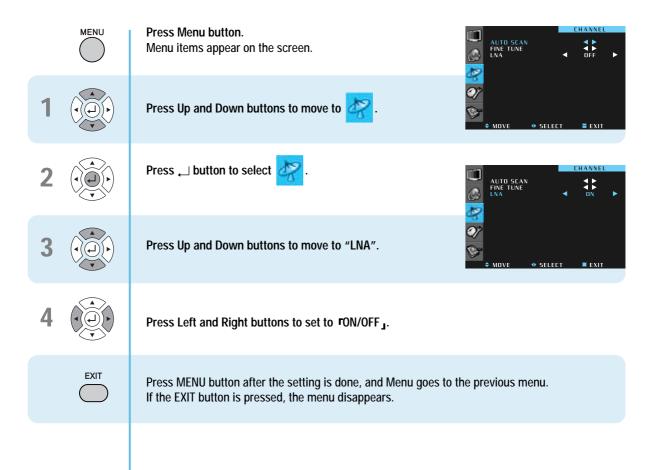






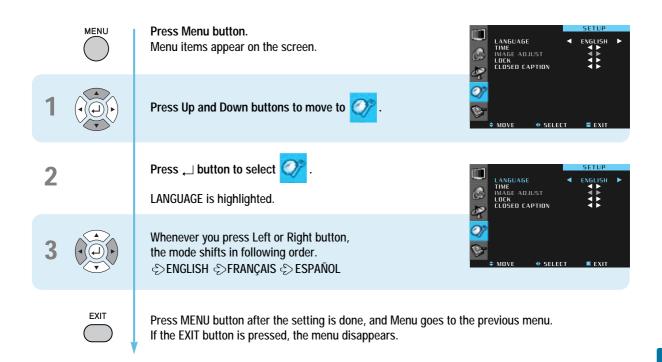
How to the LNA (Low-Noise-Amplifier) Feature

If the reception is clear, you don't have to use this feature. If the signal is weak or distorted, perform the following steps.



How to Choose Your Language

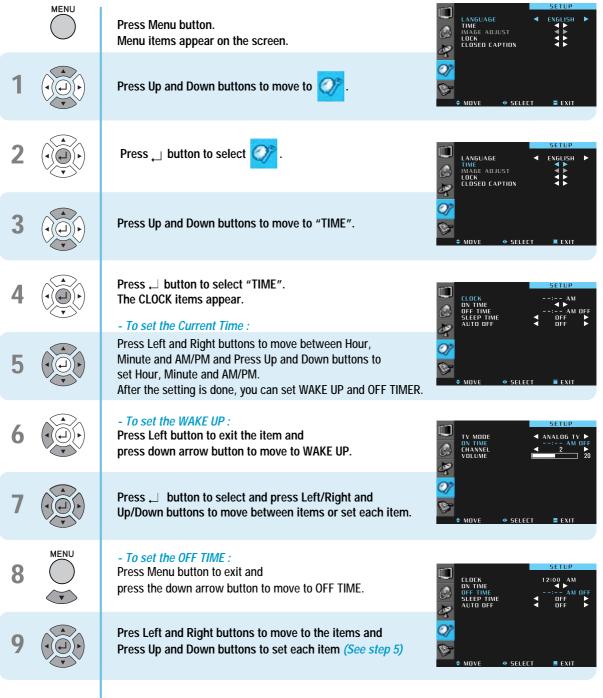
Users can select their language preference in order to display main menus and sub menus, etc.





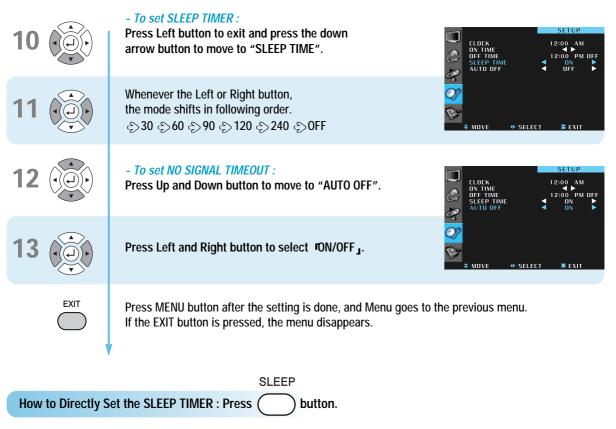
How to Set Clock, On/Off Time, Sleep Time

- You can automatically turn on or off the TV at a preset time. To do this, you must set the clock if you wish to use the automatic on or off timers.
- No Signal Timeout allows you to automatically turn off the TV if there is no broadcast signal for a certain period of time.



Continued on next page.....

Continued from previous page..... (Set the SLEEP TIMER and NO SIGNAL TIMEOUT)

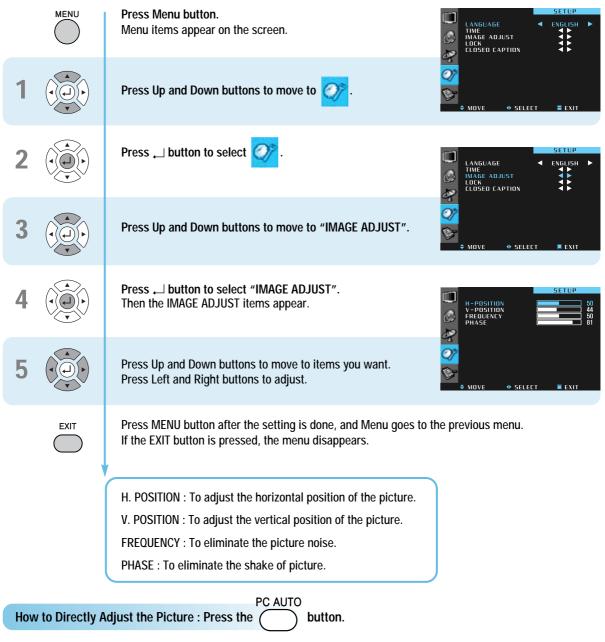


Whenever this button, the mode shifts \Rightarrow 30 \Rightarrow 60 \Rightarrow 90 \Rightarrow 120 \Rightarrow 240 \Rightarrow 0FF \Rightarrow in order.



How to Set the Geometry in PC Mode

This function is only available in PC mode.



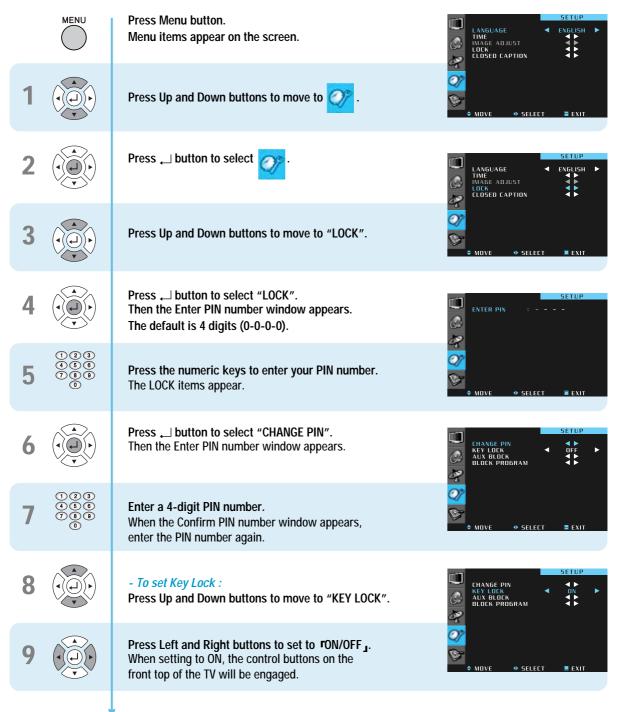
The picture will be automatically optimized for viewing.



If the display input signal (resolution) has been changed, the picture will be automatically optimized.

How to Set Key Lock

This function is used to prevent from using the control buttons on the front top of the TV or from connecting external devices to the TV. You make sure to set a PIN number to use this function.



SETUP

Continued on next page



Continued from previous page..... (Set the Lock External Signal function.)

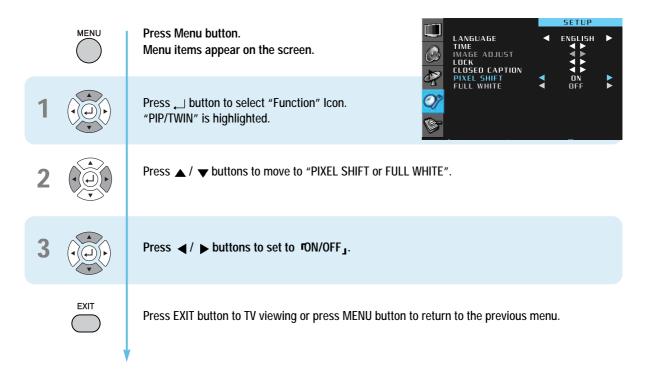
10	- To set Aux Block : Press Up and Down buttons to move to "AUX BLOCK".	CHANGE PIN KEY LOCK AUX BLOCK BLOCK PROGRAM
	Press _ button to select "AUX BLOCK". Then the AUX BLOCK items appear.	◆ MOVE ◆ SELECT ■ EXIT
12	Press Up and Down buttons to move to the item you want. Press Left and Right buttons to set to rON/OFF . If the item is set to ON, such item is disabled.	SETUP VIDEO/5-VIDEO COMPONENT 1/2 RGB/OVI SETUP SETUP SETUP OFF OFF OFF OFF OFF
EXIT	Press MENU button after the setting is done, and Menu goes to the previous menu. If the EXIT button is pressed, the menu disappears.	◆ MOVE ◆ SELECT ■ EXIT
1		

TIP

- The Lock External SIGNAL function is designed to prevent a VCR or game player from being connected to the TV. If you forgot your PIN number, press the MENU + MTS + SLEEP + INFO buttons on the remote control in sequence to restore the default number, 0-0-0-0.
 - The Key Lock function will be disengaged when you turn off and then on AC power or when a power failure happens.

Using the Pixel Shift / Full White - For A421S, A421H Model only

This feature is designed to reduce image sticking effects during displaying a static picture. (Brightness degradation is caused by the scale effects of a panel, which is characteristic of a TV.)





How To Set Block Program

This(V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked.

V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Ratings for Movies previously shown in theaters :

Movie Ratings :	 Blocking Off 	(Permits all programs)
	- G	(General audience)
	- PG	(Parental guidance suggested)
	- PG-13	(Parents strongly cautioned)
	- R	(Restricted)
	- NC-17	(No one 17 and under admitted)
	- X	(Adult only)
If you set PG-13 :	G and PG movies will be	e available , PG-13, R, NC-17 and X will be blocked.

Ratings for Television programs including made-for-TV movies :

- TV-G	(General audience)	
- TV-PG	(Parental guidance suggested)	
- TV-14	(Parents strongly cautioned)	
- TV-MA	(Mature audience only)	
- TV-Y	(All children)	
- TV-Y7	(Children 7 years older)	

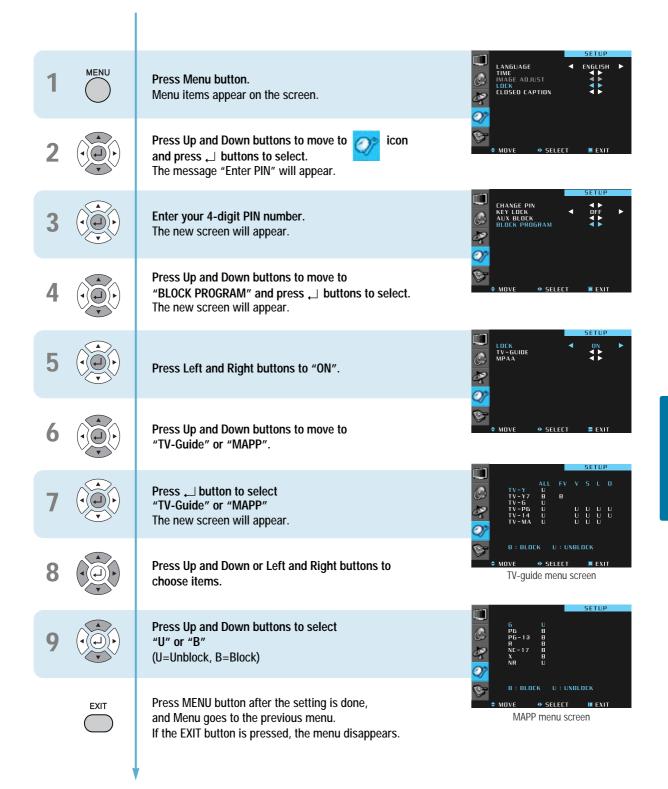
TV Rating Children : - Age - Fantasy Violence	(applies to TV-Y, TV-Y7) (applies to TV-Y7)	

TV Rating General : - Age	(applies to TV-G, TV-PG, TV-14, TV-MA)
- Dialogue-sexual dialogue	(applies to TV-PG, TV-14)
- U Language-adult language	(applies to TV-PG, TV-14, TV-MA)
- Sex-sexual situations	(applies to TV-PG, TV-14, TV-MA)
- Violence	(applies to TV-PG, TV-14, TV-MA)

Continued on next page

HYUNDAI LCD/PDP TV

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How to View Closed Captions

Choices in the closed caption menu are : CC Mode. 1. CC MODE :

ON : Captioning information is always shown, when available.

OFF : No captioning information is displayed.

On mute : Captioning information is only when the TV's sound is mute, when available.

(To mute the sound, press the mute button on the remote control and captioning information will appear on the screen, if available)



If you turned off the speakers in the Audio menu, closed captioning won't appear when you press the mute button on the remote.

2 ANALOG (CAPTION) : You can select a closed caption mode, which is the mode, or source, used for displaying captioning information for analog channels if available.

• CAPTION :

The form for the words that scroll across the bottom of the TV screen : usually the audio portion of the program provided for the hearing impaired.

CC 1 : For video related information that can be displayed. Script can be in any language.

CC 2/3/4 : Other modes used for video related information.

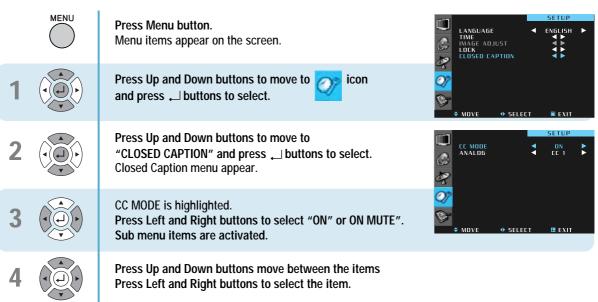
• TEXT :

The term for the words that appear in a large black frame and almost cover the entire screen : Usually message provided by the broad caster.

T 1 : Blanks out a large portion of the picture on the television screen, and display program guide or any other information currently being transmitted.

T 2/3/4 : other modes that display information and blank out a large portion of the picture of the TV screen.

SETUP



Glossary 1

Cable

Component video	Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S-VIDEO by splitting chrominance into two separate portions.
Composite video	Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.
S-VIDEO	S-VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S-VIDEO provides better resolution than composite video, which carries the signals together.
480i	Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.
480p	Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
720p	Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
1080i	Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).
ble Broadcast Receiver (Converter)	A device that receives cable broadcasting. Connecting it to your TV set allows you to watch a various channels.
Satellite Broadcasting	Provides crisp picture and clear audio quality throughout the country via a satellite.
VHF/UHF	VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.
DVD	DVD (Digital Versatile Disc) is an optical disc that can store a huge volume of multimedia such as video, game, and audio application, etc.



Glossary 2

LNA (Low-Noise-Amplifier)	Satellite applied technology. It is capable of amplifying weak signals so that any area experiencing a signal interruption may enjoy a clearer picture quality.
Aspect ratio	Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.
PIP (Simultaneous Screen)	PIP allows you to view two images at the same time in a single screen.
SWAP	PIP function provides a main picture (larger image) and sub-picture (smaller image). The SWAP is designed to swap the sub-picture for the main picture. For example, while you are watching a main picture on TV and watching a sub-picture on VCR, you can instantly switch the two pictures by using the SWAP function.
Picture Mode	Picture Mode features the optimal picture quality. There are Standard-Dynamic-Movie- Mild- Custom features in order. "CUSTOM" allows you to adjust Contrast, Brightness, Sharpness, Color and Tint.
Sound Mode	Sound Mode features the optimal sound quality. There are Standard-News-Music- Sports- Custom features in order. "CUSTOM" allows you to adjust high frequency sound, middle frequency sound and low frequency sound.
Analog Broadcasting	ATSC-based Video and Audio signals transmitted by broadcasting companies.
SRS TruSurround TX	A well-recognized 3D sound technology developed by US SRS Labs, Inc. This technology delivers the ultimate audio experience only with two speakers as if through multi-channel speakers.
Subwoofer	Designed to improve ultra low frequency with about 150Hz. There are active type that is built with a built-in amplifier and passive type that is required to connect an additional amplifier to it.
Mono	Audio signals are produced through a single channel. It is difficult to experience a spectacular sound since audio signals are reproduced with a single speaker.
Stereo	Audio signals are produced through two channels. A spectacular sound is reproduced with two separated speakers.
Widescreen	Term given to picture displays with a wider aspect ratio than NTSC 4:3. Digital HDTV is 16:9 widescreen. Most motion pictures also have a widescreen aspect ratio, some even wider than 16:9.
Panorama screen	Refers to a screen whose distortion due to the screen size has been calibrated.

Glossary 3

- External source Refers source signals that come from other external devices such as a VCR, camcorder and DVD player, etc. than a TV set.
 - MTS A bilingual service provided when an overseas film, foreign drama or overseas news, etc. is aired. You can select one of two choices: mother tongue and foreign language. Or you can listen to both languages at the same time.
 - **DVI** Digital Visual Interface is a specification for digital signals. This interface using TMDS transmission reduces the loss of signal, allowing to enjoy a clear and crisp image.
 - HDMI HDMI (High-Definition Multimedia Interface) is the first and only industry-supported, uncompressed, all-digital audio/video interface. HDMI provides an interface between any audio/video source, such as a set-top box, DVD player, or A/V receiver and an audio and/or video monitor, such as a digital television (DTV), over a single cable.



Installation Problems

Symptom	Possible solution
How can I install an antenna?	Refer to pages 23.
TV screen is not clear after installing an indoors antenna.	Indoors antenna may experience poor reception due to surrounding buildings. Please install an outdoors antenna or wireless antenna.
How can I view cable broadcasting?	Please install a cable broadcasting receiver (Converter).

Picture Problems

Symptom	Possible solution
Neither picture nor sound comes up.	Check whether power is on. Check whether the power is cut or whether power cord is properly connected. Try to plug another product's power cord to the outlet the PDP is plugged into.
Picture turns on slowly after power is on.	This symptom is not a malfunction. This delay is designed to prevent the distorted and noisy picture when power is on. However, if the picture does not appear more than 5 minutes after power is on, call a service center.
Input Source information only appears on black screen.	Check whether your TV is properly connected to external devices.
Poor reception on some channels.	Check whether you selected proper channels. Try re-orienting your antenna. Ensure LNA is activated.
Black and white on some channels.	Check other channels for black and white screen. Adjust colour.
TV won't turn on.	Ensure the power cord is plugged.
Screen is too bright or too dark.	Adjust brightness.
Auto On does not work.	Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

After setting the time, I turned TV off and turn it on. The programmed information has been erased. Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

Sound Problems Symptom	Possible solution
Too much noise occurs.	Check whether the audio setting is in the Stereo mode. In the Stereo mode, the sound may be distorted in the area where experiences poor reception or is located far away from a TV broadcasting station.
No sound while viewing a cable channel	Make sure an audio or audio/video component is securely inserted into the appropriate jacks. Check other channels for sound. Check the volume settings on the cable broadcasting receiver.
Picture is OK but sound does not come out.	Try to press volume up/volume down buttons of your remote control.
One of the speakers does not produce sound.	Select sound balance and make proper adjustment. (Page 43) Check the speaker connection cables.

General	Symptom	Possible solution
Remote cont	trol won't work.	Check whether there is a blocking object between the remote control and TV. Make sure your TV is Power On. (In case of normal, LED on the front panel is in Red.) Check whether batteries are inserted with proper polarities(+, -). When the batteries are worn out, replace with new ones.
	oes the S-Video Dug in for audio output?	Connect the two Audio jacks from the S-Video cable to the left and right ports on the Composite.
Strange no	oises are heard.	Ticking noise during or after watching is caused by the change of ambient environment such as humidity and temperature, which is characterized by plastic products. Strange ticking noise occurs because a signal is suddenly transmitted to the PDP panel. So, this is not a malfunction.
	e the TV screen as a PC monitor it doesn't work.	Adjust the resolution referring to the standard signal mode table. Check the specification of your video card installed in your PC. If your video card does not work in supported hardware. Try upgrading the video card's driver.



Care and Cleaning

Cabinet Cleaning

Wipe a soft dry cloth.

Do not use inflammables like Benzene or Thinner, or wet clothes. Do not scratch the panel of LCD or PDP with a fingernail or pointed object.

Screen Cleaning

Clean the screen with a soft cloth moistened in mild glass detergent and dry with a soft cloth.

Never use any solvent on the screen such as Acetone, Benzene, or Thinner, etc.

Cleaning Inside

When the inside needs to be cleaned, contact a service center or distribution agent where the item is purchased.

It is recommended cleaning is complete before the rainy season.



Product Specifications

Model			A261	A321	A421S/A421H
Input	S-Vi	deo	1EA (A/V audio common)	1EA (A/V audio common)	1EA (A/V audio common)
	Vide	o (RCA)	1EA (Audio included)	1EA (Audio included)	1EA (Audio included)
	Com	ponent(Y/Cb/Cr)	2EA (Audio included)	2EA (Audio included)	2EA (Audio included)
	Ante	enna	1EA (ANT)	1EA (ANT)	1EA (ANT)
	PC	Connection jack	D-SUB	D-SUB	D-SUB
		Max. resolution	1024 X 768 @ 85 Hz	1024 X 768 @ 85 Hz	1024 X 768 @ 85 Hz
		Audio	L/R	L/R	L/R
	HDN	II-HDCP(or DVI-HDCI	9) 1EA	1EA	1EA
Output	Sub	woofer	1EA	1EA	1EA
	Vide	0	1EA (Audio included)	1EA (Audio included)	1EA (Audio included)
TV/Video	Colo	r system	NTSC M	NTSC M	NTSC M
	Sou	nd system	FM	FM	FM
	Vide	o system	Component, S-Video, Composite, PC, HDMI(or DVI)	Component, S-Video, Composite, PC, HDMI(or DVI)	Component, S-Video, Composite, PC, HDMI(or DVI)
Power	Sup	ply	AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz
	Con	sumption power	Typical 120W	Typical 150W	Typical 380W
	Stand-by power		Typical 2W	Typical 2W	Typical 3.5W
Dimension (W x	D x H mm ·	Stand included)	640 x 230 x 485	772 x 230 x 563	1030 x 279 x 716
Weigh (Stand ir	ncluded)		17.5 Kg	19.3 Kg	32.0 Kg
Control type			Remote control, Key control	Remote control, Key control	Remote control, Key control

- The above specifications may be subject to change without prior notice.