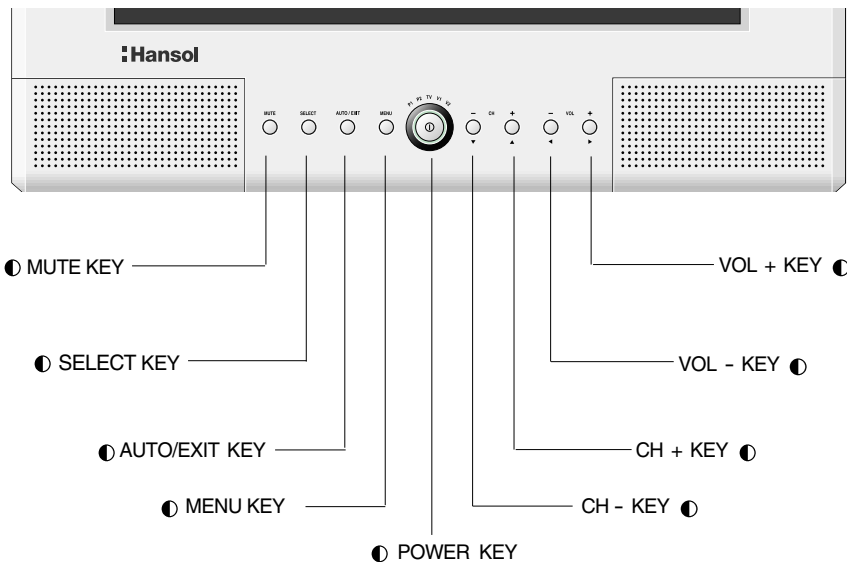


# Name and Function of Front Keys

## Front panel

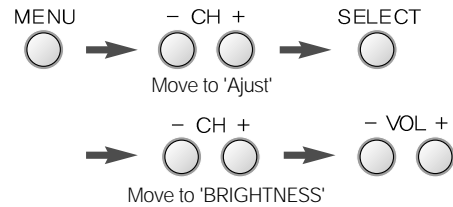
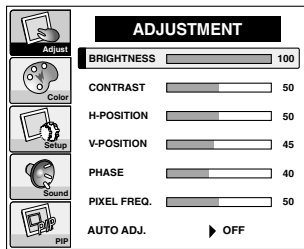


## Functions

- ◆ **Power Switch**  
Power switch is located in the lower center of the monitor stand. You can push the switch to turn on/off the power.
  
- ◆ **Power Saving LED**  
If the green LED around the power switch turns into blinking amber, it indicates the monitor is in power saving mode. If the amber LED keeps blinking and input signal LED is blinking, it indicates the monitor does not support input video signal.
  
- ◆ **Signal Source LED**  
Each of the five LEDs (from left: PC1, DVI, TV, V1 and V2) over the power switch indicates the source of the signal which the monitor displays.
  
- ◆ **On Screen Display (OSD) Function Button**  
OSD buttons on the front of the monitor perform the following functions.
  - **MUTE** : Cut off sound
  - **SELECT** : Press this button, when OSD is displayed, to select the function the cursor locates. If you press this button when OSD is not displayed, monitor displays source of the signal in order. (PC1 → DVI → TV → V1 (Video) → V2 (S-VHS))
  - **AUTO/EXIT** : Press this button, when OSD is not displayed, to perform automatic setting. If you press this button when OSD is displayed, you can switch the display to the previous OSD status.
  - **MENU** : Press this button to display menus.
  - **POWER** : Power switch.
  - **CHANNEL** : Press this button to select TV channel in TV mode when OSD is not displayed. Or press the button, when OSD is displayed, to move the cursor into the menus which you want. You can also display information with this button when OSD is not displayed in PC mode.
  - **VOLUME** : Press this button to adjust volume of audio when OSD is not displayed. By pressing this button when OSD is displayed, you can adjust gauge or select item.

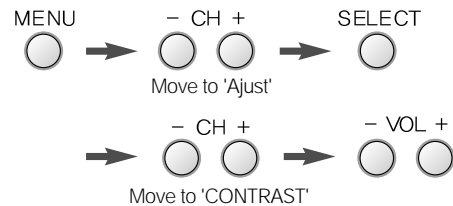
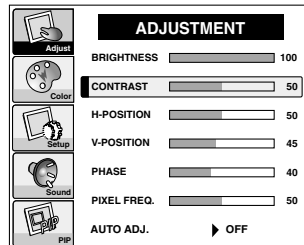
# Adjusting OSD While Using the PC

## Adjusting Brightness



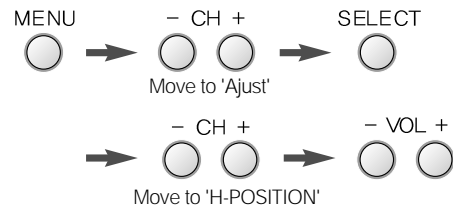
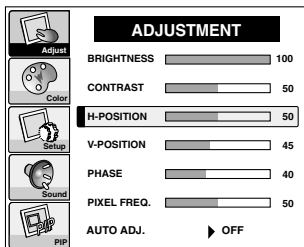
※ Use ◀ to have the monitor darker, or ▶ to brighter.

## Adjusting Contrast



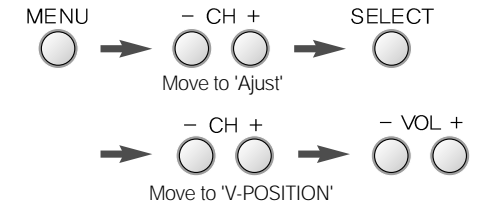
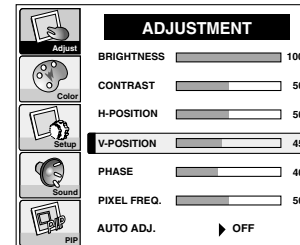
※ Use ◀ or ▶ to adjust contrast.

## Adjusting Horizontal Position



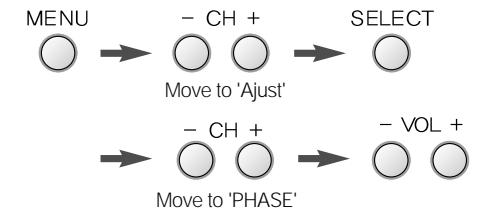
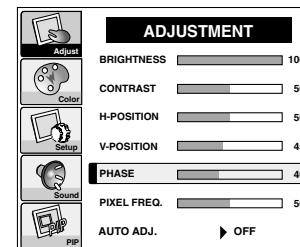
※ Use ◀ or ▶ to adjust display left or right.

## Adjusting Vertical Position



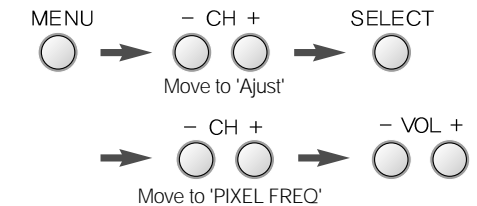
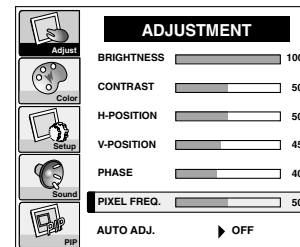
※ Use ◀ or ▶ to adjust display upward or downward.

## Adjusting Phase



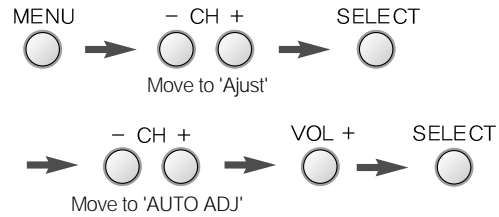
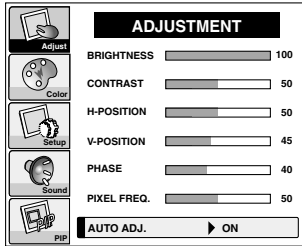
※ Use ◀ or ▶ to correct fine trembling or video noise.

## Adjusting Pixel Frequency



※ If Auto Adjustment function fails to remove video noise, Use ◀ or ▶ to remove vertical noise. (Adjusting phase is required after the adjustment of Pixel Frequency.)

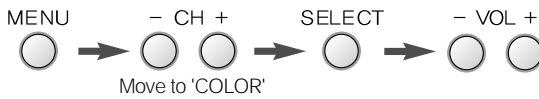
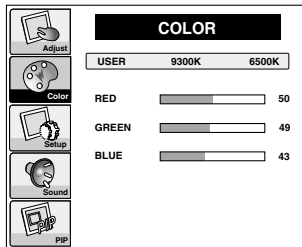
## Auto Adjustment



※ Use ► to switch 'ON' the AUTO ADJ, and press SELECT button.

In most cases, AUTO ADJUSTMENT adjusts display appropriately. Use PHASE or adjust PIXEL FREQ. in accordance with graphic card to fine tune the display.

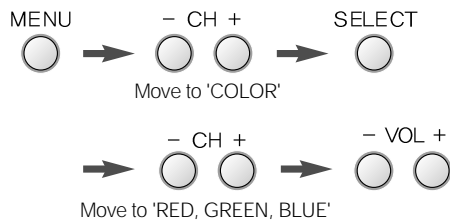
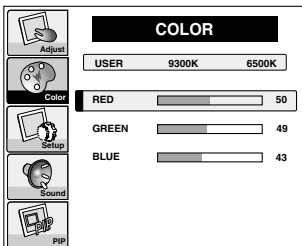
## Adjusting Color Tint



※ Use ► to select mode in order.

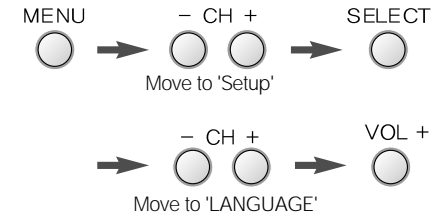
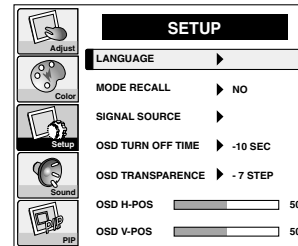
- USER : Adjusting Color
- Mode 1 : Default color
- Mode 2 : Blue tone

## Adjusting RGB Color



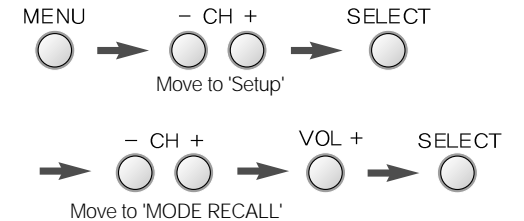
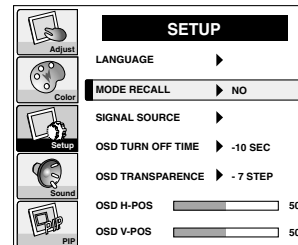
※ Use ◀ or ▶ to increase or decrease each color.

## Selecting Language



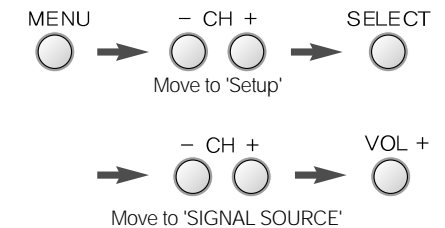
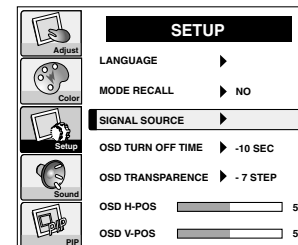
※ Use ► to select language in order.

## Reset



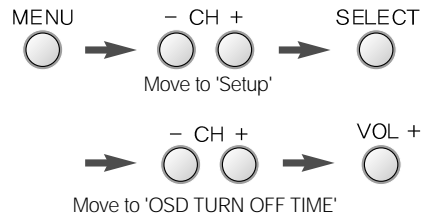
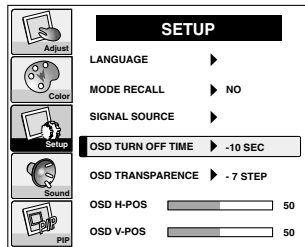
※ Use ► select 'YES' and then press SELECT button to return to default setting.

## Selecting Signal Source



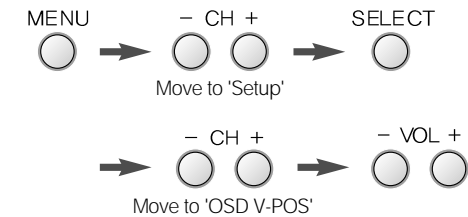
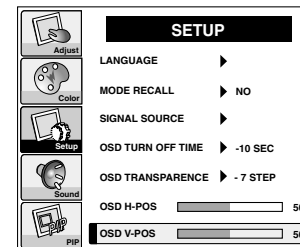
※ Use ► to select signal source in order.

## Setting OSD Turn Off Time



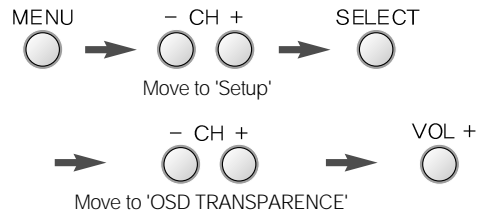
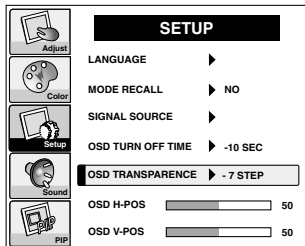
※ Use ► to increase OSD Turn Off Time by second.  
The function is used to set up the time to take to have OSD disappeared after the adjustment.

## Selecting OSD Vertical Position



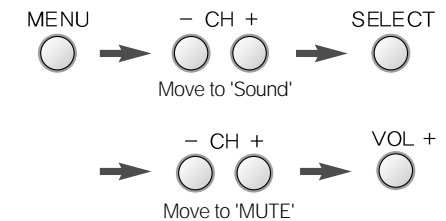
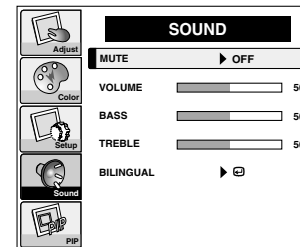
※ Use ◀ or ▶ to adjust OSD position upward or downward.

## Setting OSD Transparency



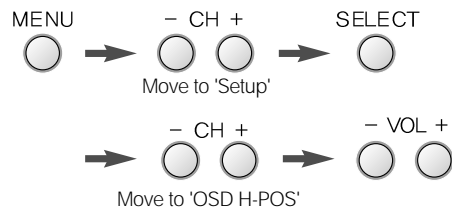
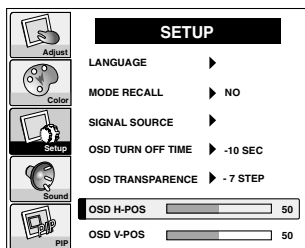
※ Use ► to adjust OSD transparency.

## MUTE



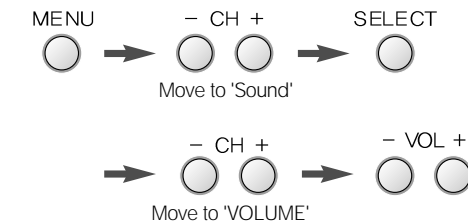
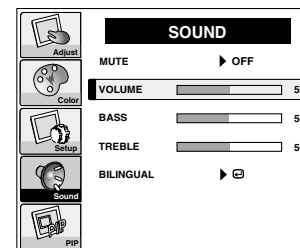
※ Use ► to select On/Off.

## Selecting OSD Horizontal Position



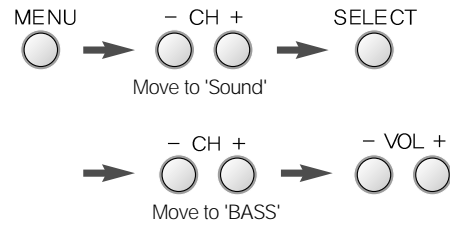
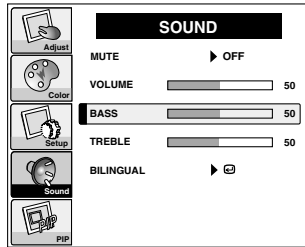
※ Use ◀ or ▶ to adjust OSD position left or right.

## Adjusting Volume



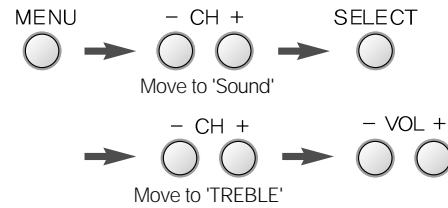
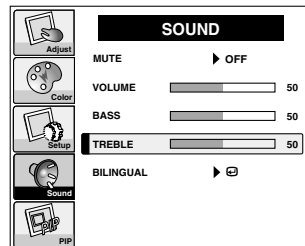
※ Use ◀ or ▶ to increase or decrease volume.

## Adjusting Bass



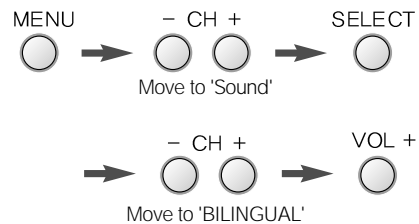
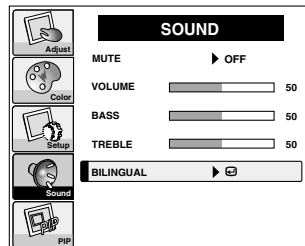
※Use ◀ or ▶ to adjust bass.

## Adjusting Treble



※Use ◀ or ▶ to adjust treble.

## Selecting Bilingual

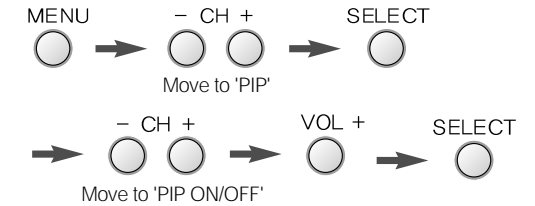
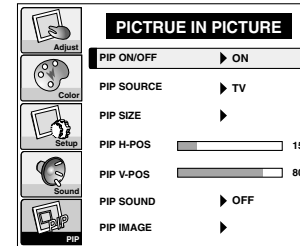


※Use ▶ to select MONO, STEREO, or FOREIGN.

## Optional Functions

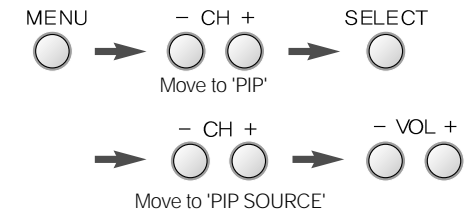
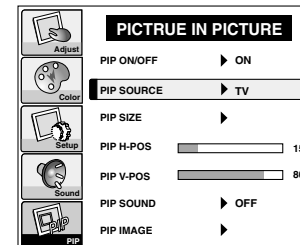
※ Picture In Picture (PIP) function is not applied to some models.

## PIP On/Off



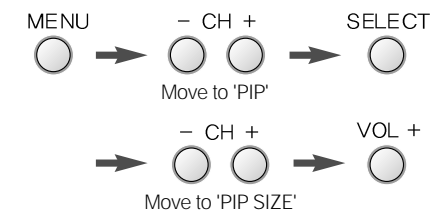
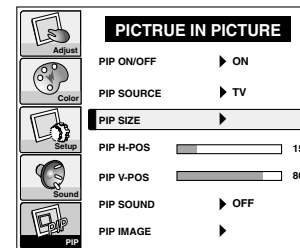
※Use ▶ to select 'On' and then press SELECT button.

## Setting PIP Signal Source



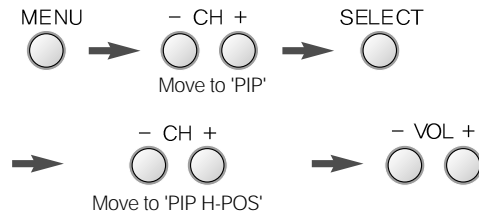
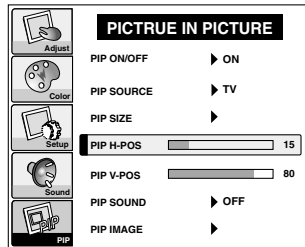
※You can display TV, VIDEO or SVIDEO for PIP signal source.

## Setting PIP Size



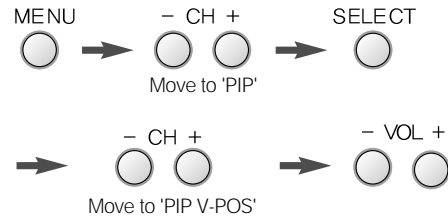
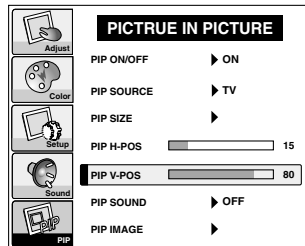
※You can set up PIP size to 'Small', 'Medium' or 'Large'.

## Adjusting PIP Horizontal Position



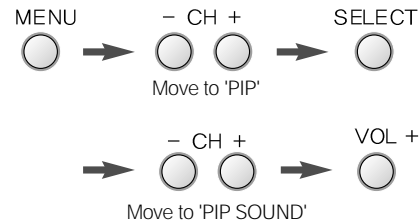
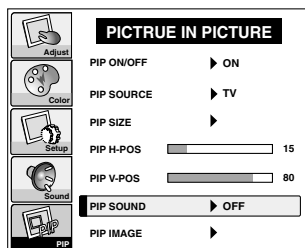
※ Use ◀ or ▶ to adjust PIP left or right.

## Adjusting PIP Vertical Position



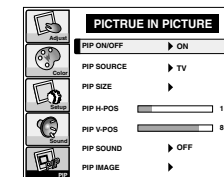
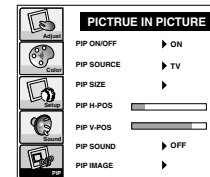
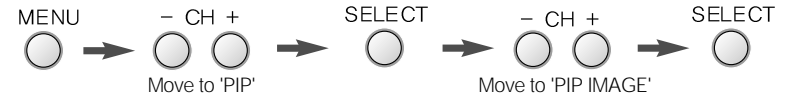
※ Use ◀ or ▶ to adjust PIP upward or downward.

## Adjusting PIP Sound

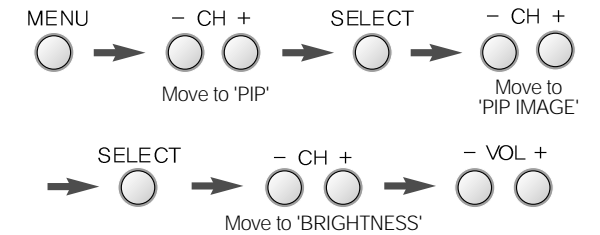
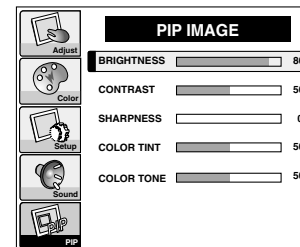


※ Use ▶ to switch On/Off the PIP sound.

## Adjusting PIP Image

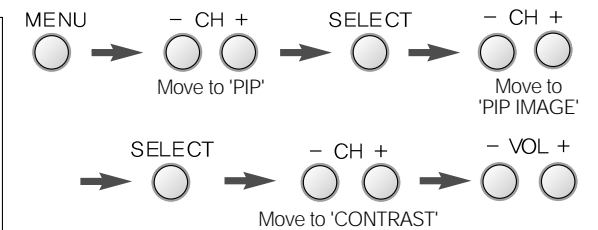
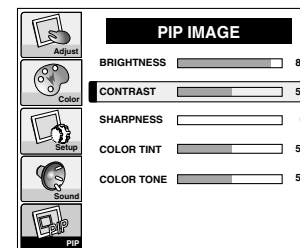


## Adjusting PIP Brightness



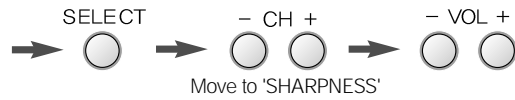
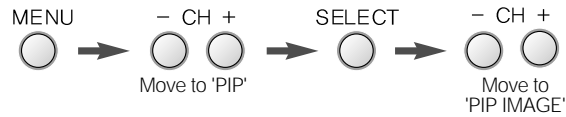
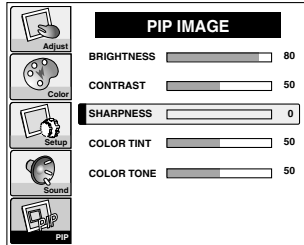
※ Use ◀ or ▶ to adjust PIP Brightness.

## Adjusting PIP Contrast



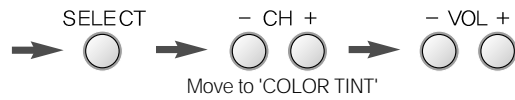
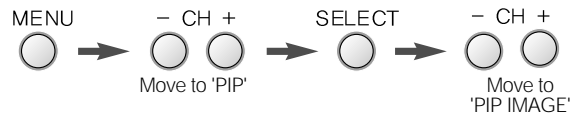
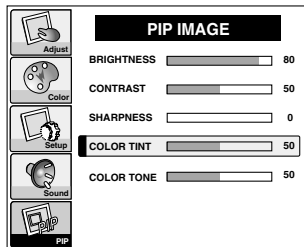
※ Use ◀ or ▶ to adjust PIP Contrast.

## Adjusting PIP Sharpness



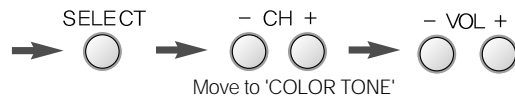
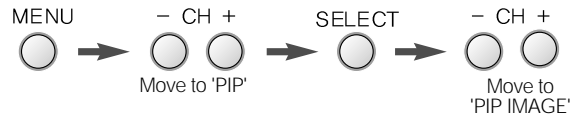
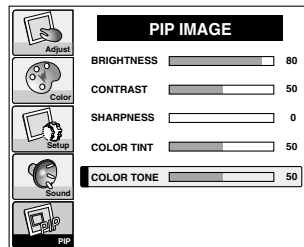
※ Use ◀ or ▶ to adjust PIP Sharpness.

## Adjusting PIP Color Tint



※ Use ◀ or ▶ to adjust PIP Color Tint.  
 (This will not affect the color quality of PC signal.)

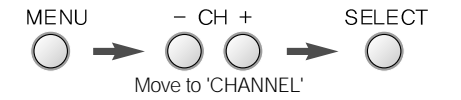
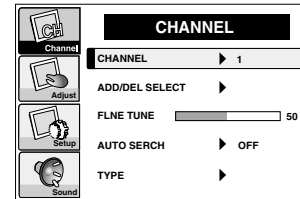
## Adjusting PIP Color Tone



※ Use ◀ or ▶ to adjust PIP Color Tone.  
 (This will not affect the color quality of PC signal.)

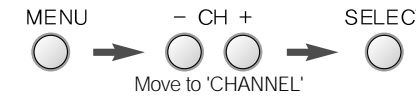
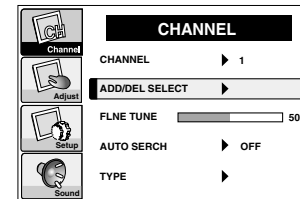
## Adjusting OSD While Using the TV & Video

### Adjusting Channel



※ Use ◀ or ▶ to select channel.

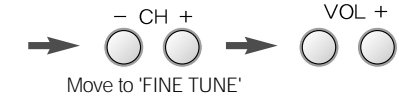
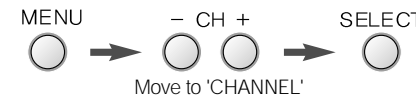
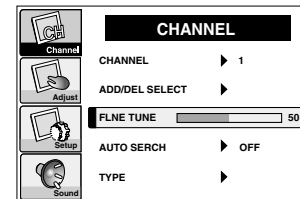
### Adding / Deleting Channel



※ Use ◀ or ▶ to add/delete channel.

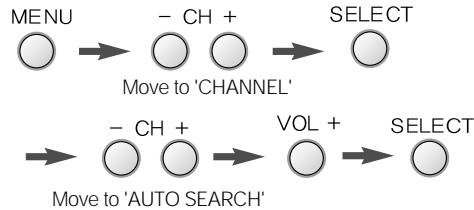
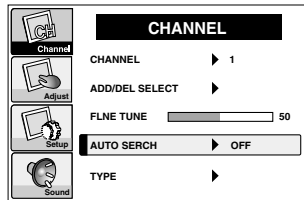
When signal is weak or the channel is not used for broadcasting, it is available to add or delete the channel.

### Fine Tuning



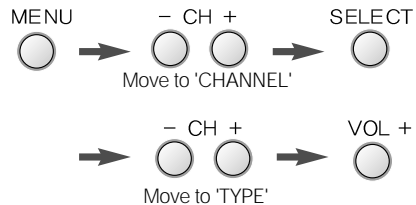
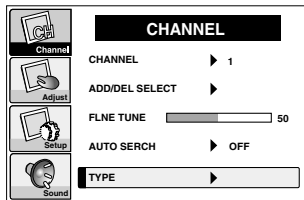
※ This function is used when some channels are not tuned due to weak TV signal or a poor antenna receiver.

## Auto Search



※ Use ► to select 'ON' button and then press SELECT button, and the channel is searched automatically and saved.

## Type



※ Use ► to select Cable/Air.

※ Refer to 'OSD function for PC' for 'Adjustment', 'Setup' and 'Sound' during TV and video operation.

## Hot Key

### PC Mode

#### 1) Hot key on the monitor

- ① Information Display  
Press CH button on the monitor to display information (resolution, frequency and others).
- ② Auto Adjustment  
Press AUTO/EXIT on the monitor front when OSD is not displayed to perform Auto Adjustment.

#### 2) Hot key on remote controller

- ① Information Display  
Press ENTER key on the remote controller to display information.
- ② Zoom function in PC mode (controlled with remote controller only)  
Press ZOOM button on the remote controller in PC mode to display gauge in the lower center of the monitor.  
Use ◀ and ▶ to adjust ZOOM size.
  - Press ZOOM button again to adjust ZOOM location.
  - Press ZOOM button again to exit ZOOM OSD.

### TV & Video Mode

#### 1) Hot Key on the monitor

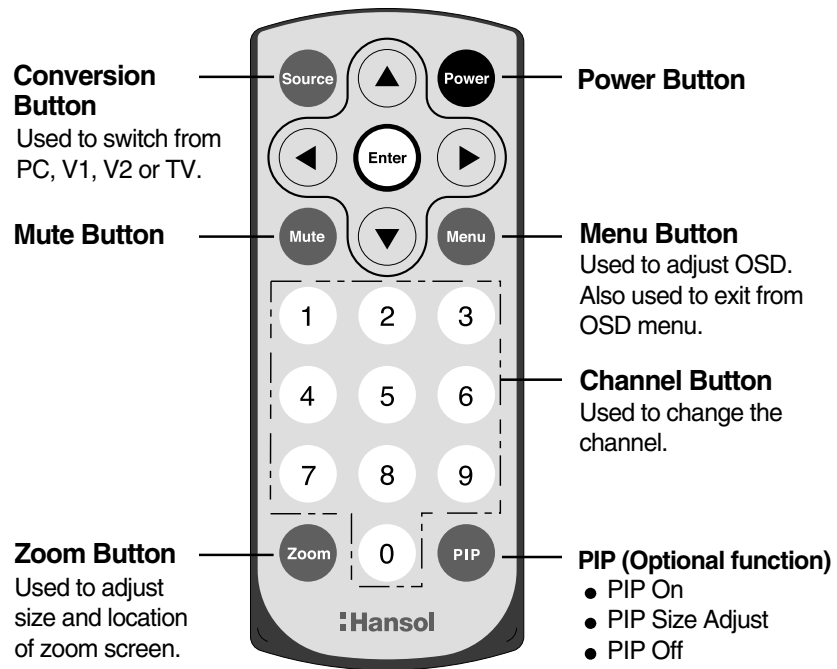
- ① Press CH button in TV mode when OSD is not displayed, so that channel number can be changed.
- ② Press VOL button in TV or Video mode when OSD is not displayed, so that volume may increase or decrease.
- ③ AUTO/EXIT button.

#### 2) Hot Key on remote controller

- ① Displaying information on TV mode  
Press ENTER key on remote controller to display information (current channel information).
- ② Displaying information on Video mode  
Press ENTER key on remote controller to display information (current video input information).



## Remote Controller

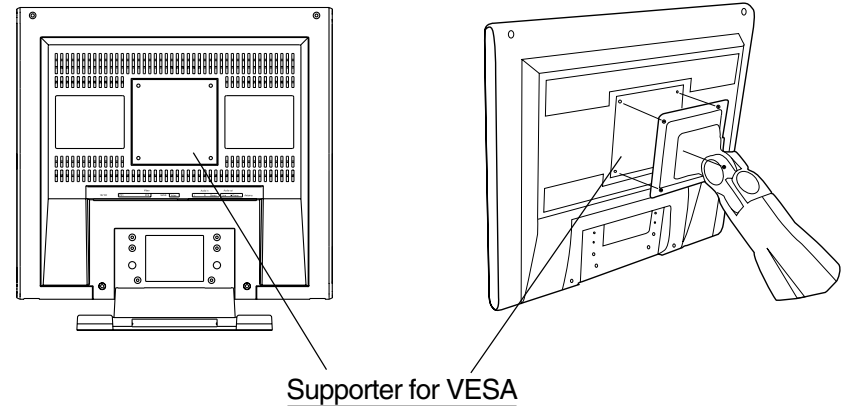


※ PIP function is optional.  
PIP function is applied to some models.

※ **Warning**  
To avoid exposition, replace the batteries correctly.  
Use the batteries designated by a manufacturer or equivalent.  
Dispose the batteries as the instruction of a manufacturer.

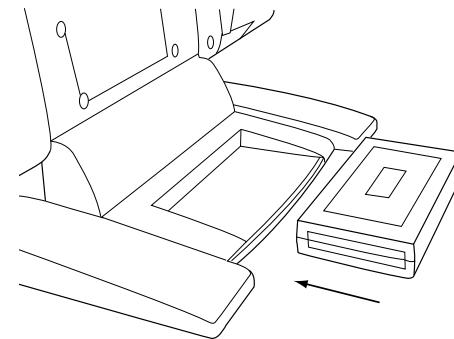
## Installing VESA and USB

### Installing VESA Stand



※ Arrange the VESA stand on supporter and fix with four screws.

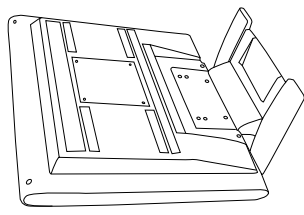
### Installing TUNER (Optional)



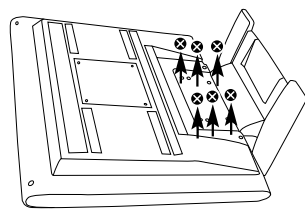
※ Install TUNER in the designated location in the rear side of the stand.  
(Use dedicated TUNER from Hansol Electronics only.)

# Installing Option Stand

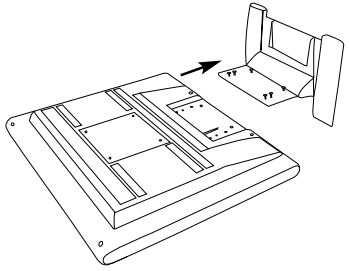
The monitor is available for various VESA standard stands. Follow the following instruction for VESA stand.



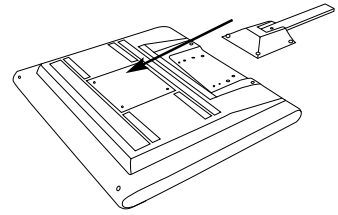
1. Place the monitor with its LCD panel on the flat ground covered with cushion or soft cloth.



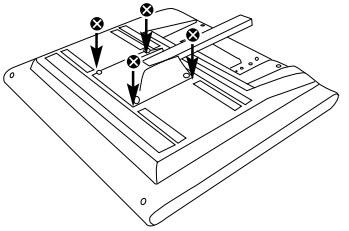
2. Unscrew six screws.



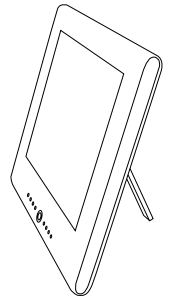
3. Disassemble the stand.



4. Locate the option stand on the supporter.



5. Tighten four screws.



6. Stand the monitor and spread out the stand bar.

# 1. ANALOG Standard Signal Table

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
VGA (720 ×400)	31.469	70.087	28.322
VGA (640 ×480)	31.469	59.940	25.175
VGA (640 ×480)	37.500	75.000	31.500
SVGA (800 ×600)	46.875	75.000	49.500
XGA (1024 ×768)	48.363	60.004	65.000
XGA (1024 ×768)	60.023	75.029	78.750
SXGA (1280 ×1024)	63.981	60.020	108.000
SXGA (1280 ×1024)	79.976	75.025	135.000
MAC (640 ×480)	35.000	66.667	30.240
MAC (832 ×624)	49.726	74.551	57.284
MAC (1152 ×870)	68.681	75.062	100.000

**"Out of range" displayed on the screen.**  
 This message is displayed when the signal from video card exceeds the maximum frequency of the monitor. Readjust resolution and frequency in accordance with the monitor capacity. (Refer to Standard Signal Table)

## 2. DVI Standard Signal Table

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
VGA (720 ×400)	31.469	70.087	28.322
VGA (640 ×480)	31.469	59.940	25.175
VGA (640 ×480)	37.500	75.000	31.500
SVGA (800 ×600)	46.875	75.000	49.500
XGA (1024 ×768)	48.363	60.004	65.000
XGA (1024 ×768)	60.023	75.029	78.750
SXGA (1280 ×1024)	63.981	60.020	108.000
MAC (640 ×480)	35.000	66.667	30.240
MAC (832 ×624)	49.726	74.551	57.284
MAC (1152 ×870)	68.681	75.062	100.000

### "Out of range" displayed on the screen.

This message is displayed when the signal from video card exceeds the maximum frequency of the monitor. Readjust resolution and frequency in accordance with the monitor capacity. (Refer to Standard Signal Table)

# Specification

<b>Model</b>	<b>(B17BF)</b>	
<b>LCD Panel</b>	Type	Amorphous active matrix super TFT LCD
	Screen Size	17" (Diagonal)
	Maximum Resolution	Analog : 1280 X 1024@75 Hz , DVI: 1280 * 1024@60Hz
	Pixel Range	0.264 mm X 0.264 mm
	Maximum Colors	16.7 M
	Contrast Rate	200 : 1
	Visual Angle	80° / 80° / 80° / 80° (Left / Right / Up / Down)
	Response Speed	60 ms
<b>Synchro nization</b>	Brightness	200 cd/m <sup>2</sup>
	Horizontal Frequency	80 kHz (Max.)
	Vertical Frequency	75 Hz (Min.)
<b>Video Input</b>	Video Signal	Analog RGB (0.714 Vpp)
	Synchronous Signal Mode	H, V Separate TTL Sync, SOG, COMPOSITE
<b>Power Consumption</b>	Maximum	47 W
	Power Saving Mode	Under 5 W
<b>Control key</b>	Front Part	MUTE, SELECT, AUTO/EXIT, MENU,CH, VOL SWITCH
<b>Power Adapter</b>		Input: 85/265V (50-60 Hz), Output: 12V, 4.5A, 54W
<b>Multi-Media</b>	TV	NTSC
	Audio	3 Watt Speaker X 2 (Max.)
	Video	CVBS, S-VHS
	Wall Mount	VESA Standard
<b>Safety Standard &amp; EMI</b>	Safety Standard	UL, CE, CB, TUV
	EMI	FCC-B
	Low Radiation	MPR-II
<b>Dimension</b>	Size and Weight	435 X 448 X 197 / 6.0 Kg

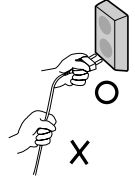
# Troubleshooting

<b>Power LED is off. No picture.</b>	▷	<ul style="list-style-type: none"> <li>Check the power connection. (Refer to page 4)</li> </ul>
<b>Message, "CABLE DISCONNECTED." is displayed on the screen.</b>	▷	<ul style="list-style-type: none"> <li>Check the computer connection cable. (Refer to page 4)</li> <li>Check if computer power is on.</li> </ul>
<b>Screen looks to be run down.</b>	▷	<ul style="list-style-type: none"> <li>Check the signal cable between monitor and computer. (Refer to page 4)</li> <li>Perform AUTO ADJUSTMENT.</li> </ul>
<b>Screen is not clear.</b>	▷	<ul style="list-style-type: none"> <li>Perform FREQUENCY ADJUSTMENT and Adjust PHASE.</li> <li>Switch off/on the monitor.</li> <li>Remove accessories (Video extension cable and others) and switch on.</li> </ul>
<b>Display is unstable and trembling.</b>	▷	<ul style="list-style-type: none"> <li>Check the resolution and frequency of computer and video card, and set up the again in reference to the current monitor mode and standard signal mode table.</li> </ul>
<b>Color is irregular.</b>	▷	<ul style="list-style-type: none"> <li>Adjust COLOR at User Mode in OSD Color Menu.</li> </ul>

Double images or 'ghosts'.	▶	<ul style="list-style-type: none"> <li>• Check the resolution and frequency of computer and video card, and set up a gain in reference to the current monitor mode and standard signal mode table.</li> </ul>
Picture is dark.	▶	<ul style="list-style-type: none"> <li>• Adjust COLOR at User Mode in OSD Color Menu.</li> </ul>
Picture is biased or cut or too wide.	▶	<ul style="list-style-type: none"> <li>• Perform OSD ADJUSTMENT.</li> <li>• Perform AUTO ADJUSTMENT.</li> </ul>
Power LED turns into amber or blinking amber.	▶	<ul style="list-style-type: none"> <li>• Monitor is in power saving mode.</li> </ul>
No sound.	▶	<ul style="list-style-type: none"> <li>• Check the voice signal connection code or adjust volume.</li> </ul>
Dead sound.	▶	<ul style="list-style-type: none"> <li>• Adjust BASS and TREBLE.</li> </ul>
TV signal is not received.	▶	<ul style="list-style-type: none"> <li>• Check if the selected channel mode is in accordance with the channel mode of the area.</li> <li>• Select AUTO SEARCH to set up the channel automatically.</li> </ul>

# Warning

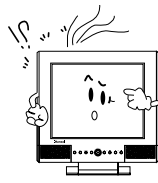
◆ To prevent damage or loss, please read this warning carefully.



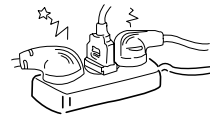
- When connecting/disconnecting the plug, pull out the plug itself, and never pull the plug to prevent fire caused by short.



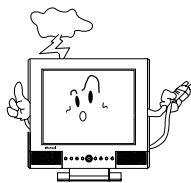
- To prevent electric shock, do not connect/disconnect the plug with wet hand.



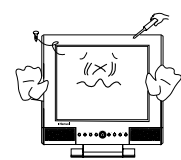
- If you see smoke or smell something burning, stop using the unit, switch off the power, pull out the plug, and then contact your local service station.



- To prevent fire, do not connect a large number of equipment in a single line.



- To prevent fire and electric shock, pull out the plug in case of thunder and lightning.



- To prevent fire and electric shock, do not try to take the monitor apart or repair it yourself. Contact your local service station or customer service center for inspection, modification or repair.